

IN THE SUPREME COURT OF INDIA
CIVIL ORIGINAL JURISDICTION
WRIT PETITION (CIVIL) NO. 13029 OF 1985

IN THE MATTER OF: -

M.C MEHTA

...PETITIONER

VERSUS

UNION OF INDIA AND OTHERS

...RESPONDENT(S)

AFFIDAVIT ON BEHALF OF BUREAU OF INDIAN STANDARDS



1. THAT I have been duly authorized by the Bureau of Indian Standards to swear the present affidavit on its behalf. I further state that I am fully aware of and conversant with the facts and circumstances of the present case; and therefore competent to swear the present affidavit.
2. THAT the present affidavit is being filed in compliance of the directions contained in para 57 [xx] of the Order dated 13.1.2020 passed by this Hon'ble Court in I.A No. 158128 and 158129. The relevant part of the said Order is reproduced herein below:



" (xx)

With respect to water quality supplied in Delhi, let the concerned Pollution Control Boards as well as the Indian Bureau of Standards, submit a report of random checking of various samples in Delhi and submit a report in this regard within one month."

- 2 -
3. Accordingly, the concerned Department i.e. Laboratory Policy and Planning Department [LPPD] of the Bureau of Indian Standards is filing its "REPORT OF TESTING OF PIPED DRINKING WATER SAMPLES DRAWN FROM DELHI" along with the present affidavit and marking the same as ANNEXURE R1.
4. THAT I state that the accompanying annexures are true copies of their respective originals.

VERIFICATION:-

VERIFIED at New Delhi on this the 19th day of February 2020 that the contents of the above affidavit are true and correct to my knowledge and belief. Nothing false has been stated therein or material concealed there from.

Identified by



ATTESTED

Notary Public, Delhi
(As Presented)

19 FEB 2020

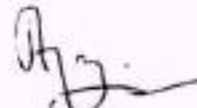
ANNEXURE R-1

Report of Testing of Piped Drinking Water Samples drawn from Delhi

In keeping with the objectives of the Jai Jeevan Mission of Hon'ble Prime Minister, BIS, as per the directions of Ministry of Consumer Affairs Food & PD, undertook a study of the quality of piped drinking water being supplied in the country.

2. In the first phase, the samples of drinking water were drawn from various locations across Delhi and 20 other Capital cities of States. The samples were drawn from different locations from piped water being supplied by city municipalities/ Corporation/ Water Board local bodies at consumer's end and sent for testing to the designated labs through couriers.
4. The samples were sent for testing as per IS 10500:2012 (Specification for drinking water) at NABL (National Accreditation Board) accredited labs.
5. Samples were sent for testing against 47 out of 48 parameters (excluding Radiological test). These covered Organoleptic and Physical test, Chemical tests, Toxic substance, Bacteriological, Virological and Biological test.
6. It was found that all the drinking water samples drawn from Delhi were non-conforming in one or more requirements as per IS 10500:2012 (Specification for drinking water).

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अजय तिवारी

AJAY TIWARI

वैज्ञानिक सी (प्रयोगशाला नीति एवं योजना विभाग)
Scientist 'C' (Laboratory Policy Planning Dept.)

भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

9, बहादुर साह जला 31/2, नई दिल्ली 110002
9, Bahadur Sahi Jala: 31/2, New Delhi-110002

City	Location from which Sample Drawn	Sl. No. of Sample	Whether Conforms/ Not-Conforms	Parameter in which not Conform	Number of non-conforming parameters
Delhi	Burari, Delhi- 110084	1	Not-Conforming	Odour, pH Value, Turbidity, Aluminium, Iron, Phenolic compounds, Coliform	07/47
	Krishi Bhawan	2	Not-Conforming	Odour, Total dissolve solid, Aluminium, Magnesium, Total Alkalinity, Total hardness, Coliform	07/47
	12 Janpath, Honab'le Minister's home	3	Not-Conforming	Odour, Aluminium, Coliform	03/47
	Mandoli Ext., Delhi	4	Not-Conforming	Odour, pH Value, Turbidity, Aluminium, Manganese, Coliform	06/47
	Pitam Pura, Delhi	5	Not-Conforming	Colour, Odour, pH Value, Turbidity, Iron, Manganese,	06/47
	Ashok Nagar, Delhi	6	Not-Conforming	Colour, Odour, pH value, Turbidity, Aluminium, Phenolic compound, Coliform	07/47
	Baba colony Burari, Delhi	7	Not-Conforming	Odour, Total Dissolve Solid, Calcium, Chloride, Total Hardness, Magnesium, Total Alkalinity, Nitrate, Aluminium, Manganese, Anionic Detergent, Phenolic compound, Coliform	13/47
	Surat Vihar, Mukund Pur	8	Not-Conforming	Odour, pH Value, Turbidity, Total dissolve Solid, Colour, Manganese, Total Hardness, Phenolic compound, E. Coli, Coliform, Aluminium, Ammonia, Anionic Detergents	13/47
	Secma Puri	9	Not-Conforming	Odour, pH., Turbidity, Aluminium, Manganese, Iron, Phenolic Compound, E. Coli, Coliform,	09/47
	Karawal Nagar	10	Not-Conforming	Odour, Colour, pH value, Turbidity, Aluminium, Manganese,	06/47
	Janta Vihar	11	Not-Conforming	Colour, Odour, Turbidity, Total Dissolve solid, Ammonia, Anionic Detergents, Calcium, Manganese, Nitrate, Phenolic compounds, Sulphide, Total Alkalinity, Total Hardness, E. Coli, coliform	15/47

(Signature)

DETAILS OF SAMPLES

5

Sl. No.	Sample Code	Report No.	Address
01	DW/09262019/01	M19200040728 201909260137 201909280300	Deepak kumar Roy A-2, U G Floor, B- Block, Khasra No- 776, Sri Siddhi Vinay Appartment, Burari Delhi- 110084 Mobile - 9315046466
02	DW/09262019/02	M19200040729 201909260136 201909280299	Sample of Krishi Bhawan
03	DW/09262019/03	M19200040731 201909260135 201909280298	12 Janpath, Honab'le Minister's home sample
04	DW/09262019/04	M19200040734 201909260134 201909280297	Anil Kumar S/o Ram Kishan H. N. 887, Gali No. 9, Mandoli Ext., Delhi- 110093 Mobile No. 8744998275 AC- 68, Gokal pur
05	DW/09262019/05	M19200040751 201909260133	Roop Kishore 25 futta Road, Kapil Vihar, Pitam Pura Delhi- 110042, Mobile No. 9971176772
06	DW/09262019/06	M19200040737 201909260132 201909280296	Anju W/o Rajendra Kumar Panchal D-1/172 Gali no. 4, Ashok Nagar, Delhi- 110093 Mobile No. 9211805251 AC- 64 Rohtash Nagar
07	DW/09262019/07	M19200040740 201909260131 201909280295	Pooja Sharma H. N. 182, Gali No. 9 A - Block Baba colony Burari, Delhi Mobile No. 9718036054
08	DW/09262019/08	M19200040748 201909260130 201909280294	Rekha Devi W/o Mr. Sunil Kumar Gali No. 2, Surat Vihar, Mukund Pur Mobile No. 9211954407/ 9711885879
09	DW/09262019/09	M19200040742 201909260129 201909280293	Eliyas S/o Ishaak E-5/69, Nand Nagri, Delhi- 110093 Mobile No. 999077838 AC Seema Pur,
10	DW/09262019/10	201909260128	Vinod Kumar S/o Shiv Karan Verma E- 1/348, Sonia Vihar, Delhi 110094 Mobile No. 9711866846 AC - 70 Karawal Nagar
11	DW/09262019/11	M19200040745 201909260127 201909280292	Bhagwan Din Maia Shukar bazar, Main Road, Janta Vihar Delhi - 110042 Mobile - 9654269733

[Signature]
AJAY TIWARI
Scientist C (Laboratory) - Microbiology
B-10, PUSA, New Delhi - 110012



Certificate No.: TC-4950

6-

Test Report

Report No.: M19200040728	LUR No.: TC59601900052306F	Date of Report: 14/10/2019
Customer Detail		
Name of Customer	Bureau of Indian Standards, Central Laboratory	
Address	Plot No. 20/9, Site IV, Sahibabad Industrial Area, Sahibabad, Ghaziabad, Uttar Pradesh	
Contact Person	Sachchidananda Kumar	
Pin Code	201010	
Sample(s) Drawn by The Laboratory	No	
Sample Details		
Sample Name	Drinking Water	Ref
Nature	Liquid	QW/10012019/01
Qty	30L X 5/6r	Stamped/Sealed
Packing	PET Jar	Yes
Laboratory Analysis Detail		
Testing performed at	Permanent facility	Date of sample Receipt
Date of starting Analysis	10/10/2019	Date of Completion
Deviation in Environmental condition which may affect the result or required for interpretation of result: No		

Biological Testing:

Water

Parameter	Method	Result	LOQ	Specification	Unit	Deviation/ addition/ exclusion from method
M12 Phage	USEPA method 1602	Absent	-	Absent	/L	No
Gardia	ISO: 15533 - 2006	Notant	-	Absent	/10 L	No
Cryptosporidium	ISO: 15533 - 2006	Absent	-	Absent	/10 L	No

Remarks: The tested sample complies to IS 10500 - 2012 specification for the above tests conducted.
..... END

Sunita Reddy

P001USR322141019132610

Authorized Signatory

Sunita Reddy

HOD-Microbiology



M19200040728

Page 1 of 2

Microchem S&B Pvt. Ltd. Microchem House, A-511, TTC Industrial Area, MIDC, Mahape, Navi Mumbai 400701, India
Tel.: +91-22-39489700, Fax: +91-22-39489701, Email: costomercare.in@microchem.com
CIN: U24233MH0007PTC176636 GST: 27AFCN855P720 PAN: AAFCH855P TAN: MUMH424800

Sunita Reddy
07.10.2019
BUREAU OF INDIAN STANDARDS
Central Laboratory
Plot No. 20/9, Site IV, Sahibabad Industrial Area, Sahibabad, Ghaziabad, Uttar Pradesh
201010

7-



Certificate No. TC-088



Test Report

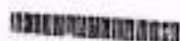
Report No.: N19200040728	ULR No.: TCS950190000521067	Date of Report: 14/10/2019
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Note:

1. The results reported relate only to the sample(s) tested.
2. In case sample is not drawn the results apply to the sample as received.
3. This test report, in full or in part, shall not be reproduced, used for any legal action, without prior written approval of laboratory.
4. Laboratory is not responsible for the authenticity of photocopied test report.
5. The test items will not be retained for perishable products and will be retained for 1 month in case of non-perishable samples unless otherwise agreed with the customer or as required by the applicable regulation.
6. The tests marked with (*) are not accredited by NABL.
7. The tests marked with (R) are OutSource.
8. The Report is: with suffix A - Revised Report
9. This is a computer generated document with electronic signature hence does not require manual signature.
10. The Statement of compliance is based on a 95% coverage probability for the expanded uncertainty.
11. The information pertaining to sample tested have been provided by client.
12. To confirm the authenticity of this certificate of analysis, please contact us through <http://bit.ly/authenticity> or email us the scanned copy of the certificate at qa@meries.com

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Handwritten signature and date: 14/10/2019



N19200040728

Page 2 of 2

Microchem S&B Pvt. Ltd., Microchem House, A-513, TTC Industrial Area, MIDC, Malape, Navi Mumbai 400701, India
Tel.: +91-22-29468700, Fax: +91-22-29468701 - Email: customerservice@microchem.com
CIN: U24232MH2007PTC178538 - GST: 27APCM6855P220 - PAN: AAPCM6856P - TAN: MUMM428608



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PHARMACEUTICALS PRIVATE LIMITED
(ANALYTICAL DIVISION)

ISO 9001 : 2015 Certified

Govt. Approved Test House

CERTIFICATE OF ANALYSIS



Report No. : 201909260137



TC-7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH
Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 1 Ltr
DW/09262019/01

<Test> <Results> <Acceptable Limit> <LLOQ> <Permissible Limit> <Method>

Date of start of analysis : 26/09/2019 Date of completion of analysis : 04/10/2019

Sample not drawn by laboratory.

Reference to protocol : IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 1. ORGANOLEPTIC AND PHYSICAL PARAMETERS

1 Description	Turbid liquid having sediments & suspended particles				
2 Colour (Hazen unit)	2	5.0 Max.	-	15.0Max	IS:3025(P-4)-1983
3 Odour	Disagreeable	Agreeable	-	Agreeable	IS:3025(P-5)-1983
4 pH Value	6.25	6.5-8.5	-	-	IS:3025(P-11)-1983
5 Turbidity (NTU)	14.8	1 Max.	-	5.0Max	IS:3025(P-10)-1984
6 Total Dissolved Solids, mg/L	288.0	500 Max.	-	2000.0Max	IS:3025(P-16)-1984

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

7 Aluminium (as Al)	0.035	0.03 Max.	0.0020	0.20Max	IS:3025(P-65)-2014
8 Barium (as Ba)	0.056	0.7 Max.	0.0020	-	IS:3025(P-65)-2014
9 Boron,	0.069	0.5 Max.	0.0020	2.40Max	IS:3025(P-65)-2014
10 Calcium (as Ca)	49.54	75 Max.	1.0	200.0Max	IS:3025(P-40)-2014
11 Chloride (as Cl)	57.56	250 Max.	1.0	1000.0Max	IS:3025(P-32)-1988
12 Copper (as Cu)	0.006	0.05 Max.	0.0020	1.50Max	IS:3025(P-65)-2014
13 Iron (as Fe)	1.925	1.0 Max.	0.0020	-	IS:3025(P-65)-2014
14 Magnesium (as Mg)	8.03	30 Max.	1.0	100.0Max	IS:3025(P-46)-1994
15 Manganese (as Mn)	0.064	0.1 Max.	0.0020	0.30Max	IS:3025(P-65)-2014
16 Nitrate (as NO3)	12.38	45 Max.	1.0	-	IS:3025(P-34)-1988
17 Selenium (as Se)	Below detection limit	0.01 Max.	0.0020	-	IS:3025(P-65)-2014
18 Silver (as Ag)	Below detection limit	0.1 Max.	0.0020	-	IS:3025(P-65)-2014
19 Sulphate (as SO4)	64.55	200 Max.	1.0	400.0Max	IS:3025(P-24)-1986

Page 1 of 2

Date : Friday, Oct. 04, 2019

Authorized Signatory

Unit : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45854500

Email : arbrolab@arbropharma.com, Website : www.arbropharmaIndia.com

Dr. Rahamath. SK
Sr. Manager (QA)



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PHARMACEUTICALS PRIVATE LIMITED

(ANALYTICAL DIVISION)

ISO 9001 : 2015 Certified

Govt. Approved Test House

CERTIFICATE OF ANALYSIS

Report No. : 201909260137



Sample : DRINKING WATER

Mfg. By : NS

Supplied By : NS

Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)

Address : PLOT NO-20/0, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.

Batch No : 201010

DVA/09262019/01

Mfg. Date

NS

Expiry Date

NS

Batch Size

NS

Sample Quantity

1 Ltr

Recd. On : 26/09/2019

Mfg lic. No. : NS

Ref. No. : NS, DATE : 26/09/2019

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
20 Total Alkalinity (as CaCO ₃)	90.2	200Max.	1.0	600.0Max	IS:3025(P-23)1986
21 Total Hardness (as CaCO ₃)	156.56	200 Max.	1.0	600.0Max	IS:3025 (P-21) 2014
22 Zinc (as Zn)	0.184	5 Max.	0.0020	15.0Max	IS 3025(P-65) 2014

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

23 Cadmium (as Cd)	Below detection limit	0.003 Max.	0.0020	-	IS 3025(P-65) 2014
24 * Lead (as Pb)	0.003	0.01 Max.	0.0020	-	IS 3025(P-65) 2014
25 Mercury (as Hg)	Below detection limit	0.001 Max.	0.00080	-	IS 3025(P-65) 2014
26 Molybdenum (as Mo)	Below detection limit	0.07 Max.	0.0020	-	IS 3025(P-65) 2014
27 Nickel (as Ni)	Below detection limit	0.02 Max.	0.0020	-	IS 3025(P-65) 2014
28 Arsenic (as As)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65) 2014
29 Total Chromium (as Cr)	Below detection limit	0.05 Max.	0.0020	-	IS 3025(P-65) 2014

Note : The test marked with * are not accredited by NABL

Taste :- This test is not conducted as the sample is failing in other parameters.

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CERTIFICATE OF ANALYSIS Report No. : 201909280300



TC-7375

Sample : DRINKING WATER
 Mfg. By : NS
 Supplied By : NS
 Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
 Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT. GHAZIABAD, UTTAR PRADESH.
 Batch No : 201010
 Mfg. Date : NS
 Expiry Date : NS
 Batch Size : NS
 Sample Quantity : 10X1 Ltr

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	28/09/2019	Date of completion of analysis	03/10/2019		

Sample not drawn by laboratory.

Reference to protocol :- IS 10500:2012 (Amendment No. 2, Sep 2018)
 TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

1 Ammonia (Total NH ₃ -N)	0.23	0.1 Max.	0.1	-	IS:3025, P-34 1988
2 Anionic Detergents (as MBAS)	0.18	0.2 Max.	0.050	1.0Max	ANX-K, IS:13428-2005
3 Chloramine (as Cl ₂)	Below detection limit	4.0 Max.	0.050	-	IS:3025, P-28 (1986)
4 Fluoride (as F)	Less than 1	1.0 Max.	0.050	1.50Max	IS:3025(P-60)2008
5 Residual Free Chlorine	Below detection limit	0.2 Min.	0.050	1.0Max	IS:3025(P-26)1986
6 Mineral oil	Below detection limit	0.5 Max.	0.1	-	IS:3025(P-39)1991, CL-6
7 Phenolic Compounds (as C ₆ H ₅ OH)	0.005	0.001 Max.	0.0010	0.0020Max	IS:3025(P-43)1992, CL-6
8 Sulphide(as H ₂ S)	Below detection limit	0.05 Max.	0.030	-	IS:3025(P-29)1988

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

9 Cyanide (as CN)	Below detection limit	0.05 Max.	0.020	-	IS:3025(P-27)1996
10 Polychlorinated biphenyls (PCB)	Below Detection Limit	0.0005 Max.	0.000050	-	APHA 23rd Edn. 6630
11 Polynuclear aromatic hydrocarbons (PAH)	Below Detection Limit	0.0001 Max.	0.000050	-	APHA 23rd Edn 6440
TRIHALOMETHANES(mg/L):					
12 (a) Bromoform	Below detection limit	0.1 Max.	0.050	-	APHA 6232
13 (b) Dibromochloromethane	Below detection limit	0.1 Max.	0.050	-	APHA 6232
14 (c) Bromodichloromethane	Below detection limit	0.06 Max.	0.050	-	APHA 6232
15 (d) Chloroform	Below detection limit	0.2 Max.	0.050	-	APHA 6232

TABLE 5 : PESTICIDE RESIDUES (µg/l)

Page 1 of 2

Date :- Thursday, Oct 03, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45754575

Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

*Terms & Conditions Overleaf

Dr. Rahamath. SK
D. MANOJ K. L. J. 005



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ISO 9001 : 2015 Certified

Govt. Approved Test House

CERTIFICATE OF ANALYSIS

Report No. : 201909280300



TC-7376

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010
Mfg. Date : NS
Expiry Date : NS
Batch Size : NS
Sample Quantity : 10X1 Ltr

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
16 Atrachlor	Below Detection Limit	20 Max.	0.050	-	USEPA 525.2
17 Atrazine	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
18 Aldrin & Dieldrin	Below Detection Limit	0.03 Max.	0.0050	-	USEPA 508
19 Alpha-HCH	Below Detection Limit	0.01 Max.	0.0050	-	USEPA 508
20 Beta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
21 Butachlor	Below Detection Limit	125 Max.	0.050	-	USEPA 8141A
22 Chlorpyrifos	Below Detection Limit	30 Max.	0.050	-	USEPA 8141A
23 Delta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
24 2,4-D	Below detection limit.	30 Max.	0.050	-	EPA 515.3
25 DDT (O, P & P, P isomers of DDT, ODE & DDD)	Below Detection Limit	1 Max.	0.050	-	USEPA 508
26 Endosulfan (Alpha, Beta & Sulphate)	Below Detection Limit	0.4 Max.	0.0050	-	USEPA-508
27 Ethion	Below Detection Limit	3 Max.	0.050	-	USEPA 1657 A
28 Gamma-HCH (Lindane)	Below Detection Limit	2 Max.	0.0050	-	USEPA 508
29 Isoproturon	Below detection limit.	9 Max.	0.050	-	USEPA 532
30 Malathion	Below Detection Limit	190 Max.	0.050	-	USEPA 8141A
31 Methyl Parathion	Below Detection Limit	0.3 Max.	0.050	-	USEPA 8141A
32 Monocrotophos	Below Detection Limit	1 Max.	0.050	-	USEPA 8141A
33 Phorate	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
34 Total Pesticide Residue	Below Detection Limit	-	-	-	By Calculation
BACTERIOLOGICAL TESTS					
35 * Escherichia coli (100 ml.	Absent	Not detectable	-	-	IS:15185-2016
36 * Coliform (100ml.	Present	Not detectable	-	-	IS:15185-2016

Note : The test marked with * are not accredited by NABL.
The above sample does not comply w.r.t. Coliform

Page 2 of 2

Date : Thursday, Oct 03, 2019

Authorized Signatory



12 -

Test Report

Report No.: M15200040729	URL No.: PCS96019000052308F	Date of Report: 14/10/2019
Customer Detail		
Name of Customer	Bureau of Indian Standards, Central Laboratory	
Address	Plot No. 20/9, Site IV, Sahibabad Industrial Area, Sahibabad, Ghaziabad, Uttar Pradesh	
Contact Person	Sachchidananda Kumbhar	
Pin Code	201002	
Samples Drawn by The Laboratory	No	
Sample Details		
Sample Name	Drinking Water	
Nature	Urban	Rural
Qty	200 X 5.5Ltr	Sealed
Packing	PET Jar	Yes
Laboratory Analysis Detail		
Testing performed at	Permanente facility	Date of sample Receipt: 09/10/2019
Date of starting Analysis	10/10/2019	Date of Completion: 14/10/2019

Deviation in Environmental condition which may affect the result or required for interpretation of results: No

Biological Testing:

Water

Parameter	Method	Result	LOQ	Acceptance	Unit	Deviation/ addition/ exclusion from method
M2 Phage	USEPA method 1602	Absent		Absent	/l	No
Garda	ISO 15553 - 2006	Absent		Absent	/10 L	No
Cryptosporidium	ISO 15553 - 2006	Absent		Absent	/10 L	No

Remarks: The tested sample complies to IS 5050 - 2012 specification for the above tests conducted.

END

(Signature)
10/10/2019
Sachchidananda Kumbhar
Bureau of Indian Standards
Central Laboratory
Plot No. 20/9, Site IV, Sahibabad Industrial Area, Sahibabad, Ghaziabad, Uttar Pradesh
201002

(Signature)
PC01USR22141010132541
Authorized Signatory
Surita Reddy
HOD-Microbiology

M15200040729

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13-



Certificate No.: TC-1554

Test Report

Report No.: M19200040725	ULN No.: TC396019000052309	Date of Report: 14/02/2019
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Note:

1. The results reported relate only to the sample(s) tested.
2. In case sample is not drawn the results apply to the sample as received.
3. This test report in full or in part, shall not be reproduced, used for any legal action, without prior written approval of laboratory.
4. Laboratory is not responsible for the authenticity of photocopied test report.
5. The test items will not be retained for perishable products and will be retained for 1 month in case of non-perishable samples unless otherwise agreed with the customer or as required by the applicable regulation.
6. The tests marked with (*) are not accredited by NABL.
7. The tests marked with (X) are OutSource.
8. The Report no. with suffix B - Revised Report.
9. This is a computer generated document with electronic signature hence does not require manual Signature.
10. The Statement of Compliance is based on a 95% coverage probability for the expanded uncertainty.
11. The information pertaining to sample tested have been provided by client.
12. To confirm the authenticity of this certificate of analysis, please contact us through <http://for.your@merieux.com> or email us the scanned copy of the certificate at qa.merieux.com

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27/02/2019



M19200040725

Page 2 of 2

Merieux Siltker Pvt. Ltd., Microchem House, A-315, TTC Industrial Area, MIDC, Rupa, Navi Mumbai 400701, India
Tel: +91-22-29483700, Fax: +91-22-29483701, Email: customercare.in@merieux.com
CIN: U34303MH2007PTC170824 GST: 27AFDM505P220 PAN: AAPCM5855P TAN: MUMM136808



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Govt. Approved Test House
 CERTIFICATE OF ANALYSIS

Report No.: 201909260136

TC-7375

Sample : DRINKING WATER
 Mfg. By : NS
 Supplied By : NS
 Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
 Address : PLOT NO-2019, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH
 Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 500 ML
 DW/09262019/02

<Test> <Results> <Acceptable Limit> <LLOQ> <Permissible Limit> <Method>

Date of start of analysis : 26/09/2019 Date of completion of analysis : 04/10/2019

Sample not drawn by laboratory.

Reference to protocol :- IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 1. ORGANOLEPTIC AND PHYSICAL PARAMETERS

1 Description	Clear colourless liquid				
2 Colour (Hazen unit)	Less than 1	5.0 Max.	-	15.0Max	IS:3025(P-4)-1983
3 * Odour	Disagreeable	Agreeable	-	Agreeable	IS 3025(P-5)-1983
4 pH Value	7.52	6.5-8.5	-	-	IS 3025(P-11)-1983
5 Turbidity (NTU)	0.6	1 Max.	-	5.0Max	IS 3025(P-10)-1984
6 Total Dissolved Solids,mg/L	590.0	500 Max.	-	2000.0Max	IS:3025(P-15)-1984

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

7 Aluminium (as Al)	0.108	0.03 Max.	0.0020	0.20Max	IS 3025(P-65)-2014
8 Barium (as Ba)	0.068	0.7 Max.	0.0020	-	IS 3025(P-65)-2014
9 Boron	0.121	0.5 Max.	0.0020	2.40Max	IS 3025(P-65)-2014
10 Calcium (as Ca)	70.18	75 Max.	1.0	200.0Max	IS 3025(P-40)-2014
11 Chloride (as Cl)	121.08	250 Max.	1.0	1000.0Max	IS 3025(P-32)-1988
12 Copper (as Cu)	Below detection limit	0.05 Max.	0.0020	1.50Max	IS 3025(P-65)-2014
13 Iron (as Fe)	0.041	1.0 Max.	0.0020	-	IS 3025(P-65)-2014
14 Magnesium (as Mg)	43.89	30 Max.	1.0	100.0Max	IS 3025 (P-46)-1994
15 Manganese (as Mn)	0.030	0.1 Max.	0.0020	0.30Max	IS 3025(P-65)-2014
16 Nitrate (as NO3)	27.04	45 Max.	1.0	-	IS:3025(P-34)-1988
17 Selenium (as Se)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65)-2014
18 Silver (as Ag)	Below detection limit	0.1 Max.	0.0020	-	IS 3025(P-65)-2014
19 Sulphate (as SO4)	110.52	200 Max.	1.0	400.0Max	IS 3025(P-24)-1986



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CERTIFICATE OF ANALYSIS

Report No. : 201909260135

TC-7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010
Mfg. Date : NS
Expiry Date : NS
Batch Size : NS
Sample Quantity : 500 ML
Recd. On : 26/09/2019
Mfg Lic. No. : NS
Ref. No. : NS, DATE : 26/09/2019

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
20 Total Alkalinity (as CaCO ₃)	317.75	200Max.	1.0	600.0Max	IS.3025(P-23)1988
21 Total Hardness (as CaCO ₃)	355.35	200 Max.	1.0	600.0Max	IS.3025 (P-21) 2014
22 Zinc (as Zn)	0.214	5 Max.	0.0020	15.0Max	IS 3025(P-03) 2014

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

23 Cadmium (as Cd)	Below detection limit	0.003 Max.	0.0020	-	IS 3025(P-65) 2014
24 Lead (as Pb)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65) 2014
25 Mercury (as Hg)	Below detection limit	0.001 Max.	0.00060	-	IS 3025(P-65) 2014
26 Molybdenum (as Mo)	Below detection limit	0.07 Max.	0.0020	-	IS 3025(P-65) 2014
27 Nickel (as Ni)	Below detection limit	0.02 Max.	0.0020	-	IS 3025(P-65) 2014
28 Arsenic (as As)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65) 2014
29 Total Chromium (as Cr)	Below detection limit	0.05 Max.	0.0020	-	IS 3025(P-65) 2014

Note : The test marked with * are not accredited by NABL.

Taste : This test is not conducted as the sample is failing in other parameters.



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CERTIFICATE OF ANALYSIS

Report No. : 201909280290



Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010
Mfg. Date : NS
Expiry Date : NS
Batch Size : NS
Sample Quantity : 10X1 Ltr

Recd. On : 26/09/2019
Mfg. No. : NS
Ref. No. : NS

Sample not drawn by laboratory.

reference to protocol

IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	28/09/2019				Date of completion of analysis 03/10/2019
1 Ammonia (Total NH ₃ -N)	0.17	0.1 Max.	0.1	-	IS:3025, P-34 1988
2 Anionic Detergents (as MBAS)	0.12	0.2 Max.	0.050	1.0Max	ANX-K, IS:13428-2005
3 Chloramine (as Cl ₂)	Below detection limit	4.0 Max.	0.050	-	IS:3025, P-26 (1988)
4 Fluoride (as F)	Less than 1	1.0 Max.	0.050	1.50Max	IS:3025(P-60)2008
5 Residual Free Chlorine	Below detection limit	0.2 Min.	0.050	1.0Max	IS:3025(P-26)1988
6 Mineral oil	Below detection limit	0.5 Max.	0.1	-	IS:3025(P-39)1991, CL-6
7 Phenolic Compounds (as C ₆ H ₅ OH)	Below detection limit	0.001 Max.	0.0010	0.0020Max	IS:3025(P-43)1992, CL-6
8 Sulphide(as H ₂ S)	Below detection limit	0.05 Max.	0.030	-	IS:3025(P-29)1986

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

9 Cyanide (as CN)	Below detection limit	0.05 Max.	0.020	-	IS:3025(P-27)1986
10 Polychlorinated biphenyle (PCB)	Below Detection Limit	0.0005 Max.	0.000050	-	APHA 23rd Edn. 6630
11 Polynuclear aromatic hydrocarbons (PAH)	Below Detection Limit	0.0001 Max.	0.000050	-	APHA 23rd Edn.6440
TRIHALOMETHANES(mg/L):					
12 (a) Bromoform	Below detection limit	0.1 Max.	0.050	-	APHA 6232
13 (b) Dibromochloromethane	Below detection limit	0.1 Max.	0.050	-	APHA 6232
14 (c) Bromodichloromethane	Below detection limit	0.06 Max.	0.050	-	APHA 6232
15 (d) Chloroform	Below detection limit	0.2 Max.	0.050	-	APHA 6232

TABLE 5 : PESTICIDE RESIDUES (µg/l)



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CERTIFICATE OF ANALYSIS

Report No. : 201909280299



TC-7376

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/R, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010
Mfg. Date : NS
Expiry Date : NS
Batch Size : NS
Sample Quantity : 10X1 Ltr

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
16 Atrachlor	Below Detection Limit	20 Max.	0.050	-	USEPA 525.2
17 Atrazine	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
18 Aldrin & Dieldrin	Below Detection Limit	0.03 Max.	0.0050	-	USEPA 508
19 Alpha-HCH	Below Detection Limit	0.01 Max.	0.0050	-	USEPA 508
20 Beta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
21 Butachlor	Below Detection Limit	125 Max.	0.050	-	USEPA 8141A
22 Chlorpyrifos	Below Detection Limit	30 Max.	0.050	-	USEPA 8141A
23 Delta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
24 2,4-D	Below detection limit.	30 Max.	0.050	-	EPA 515.3
25 DDT (O, P & P, P Isomers of DDT, DDE & DDD)	Below Detection Limit	1 Max.	0.050	-	USEPA 508
26 Endosulfan (Alpha, Beta & Sulphate)	Below Detection Limit	0.4 Max.	0.0050	-	USEPA-508
27 Ethion	Below Detection Limit	3 Max.	0.050	-	USEPA 1657 A
28 Gamma-HCH (Lindane)	Below Detection Limit	2 Max.	0.0050	-	USEPA 508
29 Isoproturon	Below detection limit.	9 Max.	0.050	-	USEPA 532
30 Malathion	Below Detection Limit	190 Max.	0.050	-	USEPA 8141A
31 Methyl Parathion	Below Detection Limit	0.3 Max.	0.050	-	USEPA 8141A
32 Monocrotophos	Below Detection Limit	1 Max.	0.050	-	USEPA 8141A
33 Phorate	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
34 Total Pesticide Residue	Below Detection Limit	-	-	-	By Calculation
BACTERIOLOGICAL TESTS					
35 * Escherichia coli (100 ml)	Absent	Not detectable	-	-	IS:15185-2016
36 * Coliform (100ml)	Present	Not detectable	-	-	IS:15185-2016

Note : The test marked with * are not accredited by NABL.
The above sample does not comply w.r.t. Coliform

Date : Thursday, Oct 03, 2019

Authorized Signatory

Page 2 of 2

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45754575
Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

*Terms & Conditions Overleaf

Dr. Rahamat
Sr. Manager



Certificate No. TC-5846

18

Test Report

Report No.: M19200040731	L&R No.: TC59601900052314F	Date of Report: 14/10/2019
Customer Detail		
Name of Customer	Bureau of Indian Standards, Central Laboratory	
Address	Plot No. 20/9, Sine IV, Sahasrabud Industrial Area, Sahasrabud, Gurgaon, Haryana	
Contact Person	Sachin Kumar	
Pin Code	201010	
Sample(s) Drawn by The Laboratory	No	
Sample Details		
Sample Name	Drinking Water	
Matrix	Liquid	Ref: DW/0927/2019/00
Qty	20L X 5Ltr	Scaled: Yes
Packing	PET jar	
Laboratory Analysis Detail		
Testing performed at	Permanent Facility	Date of sample Receipt: 09/10/2019
Date of starting Analysis	10/30/2019	Date of Completion: 14/10/2019

Deviation in Environmental condition which may affect the result or required for interpretation of result: No

Biological Testing:

Water

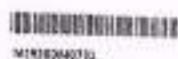
Parameter	Method	Result	LOD	Specification	Unit	Deviation/ addition/ exclusion from method
1012 Phage	ISO 10553-2006	Absent		Absent	A	No
Gastro	ISO 10553-2006	Absent		Absent	/100	No
Enterobacterium	ISO 10553-2006	Absent		Absent	/100	No

Remarks: The tested sample complies to IS 10553-2006 specification for the above tests conducted.

END

[Signature]
10/30/2019
Sachin Kumar
Bureau of Indian Standards, Central Laboratory
Plot No. 20/9, Sine IV, Sahasrabud Industrial Area, Sahasrabud, Gurgaon, Haryana
201010

[Signature]
P001USR022141019133636
Authorized Signatory
Sunita Reddy
HOD-Microbiology



M19200040731

Page 1 of 1

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Certificate No.: TC-0160

Test Report

Report No.: M19200040731	ULR No.: TC596019030523149	Date of Report: 24/10/2019
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Note:

1. The results reported relate only to the sample(s) tested.
2. In case sample is not shown the results apply to the sample as received.
3. The test report, in full or in part, shall not be reproduced, used for any legal action, without prior written approval of laboratory.
4. Laboratory is not responsible for the authenticity of photocopied test reports.
5. The test items will not be retained for perishable products and will be retained for 1 month in case of non-perishable samples unless otherwise agreed with the customer or as required by the applicable regulation.
6. The tests marked with (*) are not accredited by NABL.
7. The tests marked with (O) are OutSource.
8. The Report on with suffix R - Revised Report.
9. This is a computer generated document with electronic signature hence does not require manual Signature.
10. The statement of compliance is based on a 95% coverage probability for the expanded uncertainty.
11. The information pertaining to sample tested have been provided by client.
12. To confirm the authenticity of the certificate of analysis, please contact us through email, the query will be resolved as the scanned copy of the certificate at qa@meries.com.

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M19200040731

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CERTIFICATE OF ANALYSIS



Report No. : 201909260135

TC-7376

Sample : DRINKING WATER
 Mfg. By : NS
 Supplied By : NS
 Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
 Address : PLOT NO-2019, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH-
 Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 1 Ltr
 DW09262019/03

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	26/09/2019				
		Date of completion of analysis	04/10/2019		

Sample not drawn by laboratory.

Reference to protocol : IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 1. ORGANOLEPTIC AND PHYSICAL PARAMETERS

1 Description	Clear colourless liquid				
2 Colour (Hazen unit)	Less than 1	5.0 Max.	-	15.0Max	IS:3025(P-4):1983
3 * Odour	Disagreeable	Agreeable	-	Agreeable	IS:3025(P-5):1983
4 pH Value	7.85	6.5-8.5	-	-	IS:3025(P-11):1983
5 Turbidity (NTU)	0.7	1 Max.	-	5.0Max	IS:3025(P-10):1984
6 Total Dissolved Solids,mg/L	264.0	500 Max.	-	2000.0Max	IS:3025(P-16):1984

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

7 Aluminium (as Al)	0.174	0.03 Max.	0.0020	0.20Max	IS:3025(P-65):2014
8 Barium (as Ba)	0.050	0.7 Max.	0.0020	-	IS:3025(P-65):2014
9 Boron,	0.036	0.5 Max.	0.0020	2.40Max	IS:3025(P-65):2014
10 Calcium (as Ca)	39.63	75 Max.	1.0	200.0Max	IS:3025(P-40):2014
11 Chloride (as Cl)	42.82	250 Max.	1.0	1000.0Max	IS:3025(P-32):1988
12 Copper (as Cu)	Below detection limit	0.05 Max.	0.0020	1.50Max	IS:3025(P-65):2014
13 Iron (as Fe)	0.008	1.0 Max.	0.0020	-	IS:3025(P-65):2014
14 Magnesium (as Mg)	12.04	30 Max.	1.0	100.0Max	IS:3025(P-46):1994
15 Manganese (as Mn)	0.030	0.1 Max.	0.0020	0.30Max	IS:3025(P-65):2014
16 Nitrate (as NO3)	4.12	45 Max.	1.0	-	IS:3025(P-34):1988
17 Selenium (as Se)	Below detection limit	0.01 Max.	0.0020	-	IS:3025(P-65):2014
18 Silver (as Ag)	Below detection limit	0.1 Max.	0.0020	-	IS:3025(P-65):2014
19 Sulphate (as SO4)	45.35	200 Max.	1.0	400.0Max	IS:3025(P-24):1986

Page 1 of 2

Date : Friday, Oct. 04, 2019

Authorized Signatory

Unit : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45854500

Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

Dr. Rahamath. S.

352



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CERTIFICATE OF ANALYSIS

Report No. : 201909260135

TC 7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT. GHAZIABAD, UTTAR PRADESH.
Batch No : 201010 Mfg. Date : 201010 Expiry Date : NS Batch Size : NS Sample Quantity : 1 Ltr
DW/09262019/03

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
20 Total Alkalinity (as CaCO ₃)	125.05	200Max.	1.0	500.0Max	IS:3025(P-23)1986
21 Total Hardness (as CaCO ₃)	148.32	200 Max.	1.0	500.0Max	IS:3025 (P-21) 2014
22 Zinc (as Zn)	0.282	5 Max.	0.0020	15.0Max	IS 3025(P-65):2014

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

23 Cadmium (as Cd)	Below detection limit	0.003 Max.	0.0020	-	IS 3025(P-65):2014
24 * Lead (as Pb)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65):2014
25 Mercury (as Hg)	Below detection limit	0.001 Max.	0.00080	-	IS 3025(P-65):2014
26 Molybdenum (as Mo)	Below detection limit	0.07 Max.	0.0020	-	IS 3025(P-65):2014
27 Nickel (as Ni)	Below detection limit	0.02 Max.	0.0020	-	IS 3025(P-65):2014
28 Arsenic (as As)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65):2014
29 Total Chromium (as Cr)	Below detection limit	0.05 Max.	0.0020	-	IS 3025(P-65):2014

Handwritten signature and stamp.

Note : The test marked with * are not accredited by NABL

Taste :- This test is not conducted as the sample is failing in other parameters.



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CERTIFICATE OF ANALYSIS



Report No. : 201900280286



TC-7376

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-2019, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010
Mfg. Date : NS
Expiry Date : NS
Batch Size : NS
Sample Quantity : 10X1 Ltr

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	28/09/2019				
					Date of completion of analysis 03/10/2019

Sample not drawn by laboratory.

Reference to protocol

IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

1 Ammonia (Total NH ₃ -N)	0.25	0.1 Max.	0.1	-	IS:3025, P-34 1988
2 Anionic Detergents (as MBAS)	0.17	0.2 Max.	0.050	1.0Max	ANX-K, IS:13428-2005
3 Chloramine (as Cl ₂)	Below detection limit	4.0 Max.	0.050	-	IS:3025, P-26 (1986)
4 Fluoride (as F)	Less than 1	1.0 Max.	0.050	1.50Max	IS:3025(P-60)2008
5 Residual Free Chlorine	Below detection limit	0.2 Min.	0.050	1.0Max	IS:3025(P-25)1986
6 Mineral oil	Below detection limit	0.5 Max.	0.1	-	IS:3025(P-39)1991, CL-6
7 Phenolic Compounds (as C ₆ H ₅ OH)	Below detection limit	0.001 Max.	0.0010	0.0020Max	IS:3025(P-43)1992, CL-6
8 Sulphide(as H ₂ S)	Below detection limit	0.05 Max.	0.030	-	IS:3025(P-29)1986

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

9 Cyanide (as CN)	Below detection limit	0.05 Max.	0.020	-	IS:3025(P-27)1986
10 Polychlorinated biphenyl (PCB)	Below Detection Limit	0.0005 Max.	0.000050	-	APHA 23rd Edn. 6630
11 Polynuclear aromatic hydrocarbons (PAH)	Below Detection Limit	0.0001 Max.	0.000050	-	APHA 23rd Edn. 6440
TRIHALOMETHANES(mg/L):					
12 (a) Bromoform	Below detection limit	0.1 Max.	0.050	-	APHA 6232
13 (b) Dibromochloromethane	Below detection limit	0.1 Max.	0.050	-	APHA 6232
14 (c) Bromodichloromethane	Below detection limit	0.06 Max.	0.050	-	APHA 6232
15 (d) Chloroform	Below detection limit	0.2 Max.	0.050	-	APHA 6232

TABLE 5 : PESTICIDE RESIDUES (µg/l)

Page 1 of 2

Date : Thursday, Oct 03, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tel : +91-11-45754575, Fax : +91-11-45854500

Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

Dr. Rahamath, Sr



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Govt. Approved Test House

CERTIFICATE OF ANALYSIS

Report No. : 201909280298

TC-7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH-201010
Batch No : DW08272019/03
Mfg. Date : NS
Expiry Date : NS
Batch Size : NS
Sample Quantity : 10X1 Ltr

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
16 Atrachlor	Below Detection Limit	20 Max.	0.050	-	USEPA 525.2
17 Atrazine	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
18 Aldrin & Dieldrin	Below Detection Limit	0.03 Max.	0.0050	-	USEPA 508
19 Alpha-HCH	Below Detection Limit	0.01 Max.	0.0050	-	USEPA 508
20 Beta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
21 Butachlor	Below Detection Limit	125 Max.	0.050	-	USEPA 8141A
22 Chlorpyrifos	Below Detection Limit	30 Max.	0.050	-	USEPA 8141A
23 Delta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
24 2,4-D	Below detection limit.	30 Max.	0.050	-	EPA 515.3
25 DDT (O, P & P, P isomers of DDT, DDE & DDD)	Below Detection Limit	1 Max.	0.050	-	USEPA 508
26 Endosulfan (Alpha, Beta & Sulphate)	Below Detection Limit	0.4 Max.	0.0050	-	USEPA-508
27 Ethion	Below Detection Limit	3 Max.	0.050	-	USEPA 1657 A
28 Gamma-HCH (Lindane)	Below Detection Limit	2 Max.	0.0050	-	USEPA 508
29 Isoproturon	Below detection limit.	9 Max.	0.050	-	USEPA 532
30 Malathion	Below Detection Limit	190 Max.	0.050	-	USEPA 8141A
31 Methyl Parathion	Below Detection Limit	0.3 Max.	0.050	-	USEPA 8141A
32 Monocrotophos	Below Detection Limit	1 Max.	0.050	-	USEPA 8141A
33 Phorate	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
34 Total Pesticide Residue	Below Detection Limit	-	-	-	By Calculation
BACTERIOLOGICAL TESTS					
35 * Escherichia coli /100 ml.	Absent	Not detectable	-	-	IS-15185-2016
36 * Coliform /100ml.	Present	Not detectable	-	-	IS-15185-2016

The above sample does not comply w.r.t. Coliform
Note : The test marked with * are not accredited by NABL.

Page 2 of 2

Date :- Thursday Oct 03, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tel: +91-11-45754575, Fax : +91-11-45754575
Email : arbrolab@arbropharma.com. Website : www.arbropharmaindia.com

*Terms & Conditions Overleaf

Dr. Rahamath.
Sr. Manager

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Test Report

Report No.: M1900000794	ULR No.: TC596019000052315F	Date of Report: 14/10/2019
Customer Detail		
Name of Customer	Bureau of Indian Standards, Central Laboratory	
Address	Plot No. 20/9, Site IV, Sahibabad Industrial Area, Sahibabad, Ghaziabad, Uttar Pradesh	
Contact Person	Sachinbhai Kumar	
Pin Code	201010	
Sample(s) Drawn by The Laboratory	No	
Sample Details		
Sample Name	Drinking Water	
Nature	Liquid	Ref: DW/09272019/01
Qty	250 X 500	Sealed: Yes
Packing	PET Jar	
Laboratory Analysis Detail		
Testing performed at	Microchem Facility	Date of sample Receipt: 09/10/2019
Date of starting Analysis	10/10/2019	Date of Completion: 14/10/2019

Deviation in Environmental condition which may affect the result or required for interpretation of result: No

Biological Testing:

Water

Parameter	Method	Result	LDD	Specification	Unit	Deviation/ addition/ deduction from method
MS2 Phage	USEPA method 1607	Absent		Absent	/L	No
Coliform	ISO 15553 - 100g	Absent		Absent	/100	No
Enterobacteriaceae	ISO 15553 - 100g	Absent		Absent	/100	No

Remarks: The tested sample complies to IS 10500 - 2012 specification for the above tests conducted.

----- END -----

Signature
09.10.2019

Signature
P091USR322141019133057
Authorized Signatory
Sunita Reddy
HCC-Microbiology



Page 1 of 2

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Certificate No.: TC-0888

Test Report

Report No.: MSJ0200040734	ULN No.: TC596019000351315F	Date of Report.: 14/10/2019
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Note:

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2. In case sample is not drawn the results apply to the sample as received.
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4. Laboratory is not responsible for the authenticity of photocopied test report.
5. The test items will not be retained for perishable products and will be retained for 1 month in case of non-perishable samples unless otherwise agreed with the customer or as required by the applicable regulation.
6. The tests marked with (*) are not accredited by NABL.
7. The tests marked with (H) are OutSource.
8. The Report no. with suffix R - Revised Report.
9. This is a computer generated document with electronic signature hence does not require manual Signature.
10. The Statement of compliance is based on a 95% coverage probability for the expanded uncertainty.
11. The information pertaining to sample tested have been provided by client.
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MSJ0200040734

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Microchem SBB&P Pvt. Ltd., Microchem House, A-513, TTC Industrial Area, MIDC, Mahape, Navi Mumbai 400701, India
 Tel.: +91-22-39469790, Fax: +91-22-39469701, Email: customercare.in@mans.com
 CIN: U24233MH2007PTC176046 GST: 27AFCN5855P120 PAN: AAFCN5855P TAN: MUNW428808



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CERTIFICATE OF ANALYSIS



Report No. : 201909260134

TC-7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT. GHAZIABAD, UTTAR PRADESH.
Batch No : 201010 Mfg. Date : NS
DWI09262019/04
Expiry Date : NS
Batch Size : NS
Sample Quantity : 1 Ltr
Recd. On : 26/09/2019
Mfg. No. : NS
Ref. No. : NS, DATE : 26/09/2019

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	26/09/2019				
			Date of completion of analysis	04/10/2019	

Sample not drawn by laboratory.

Reference to protocol :- IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 1. ORGANOLEPTIC AND PHYSICAL PARAMETERS

1 Description	Turbid liquid having sediments & suspended particles				
2 Colour (Hazen unit)	3	5.0 Max.	-	15.0Max	IS:3025(P-4)-1983
3 Odour	Disagreeable	Agreeable	-	Agreeable	IS:3025(P-5)-1983
4 pH Value	6.11	6.5-8.5	-	-	IS:3025(P-11)-1983
5 Turbidity (NTU)	62.8	1 Max.	-	5.0Max	IS:3025(P-10)-1984
6 Total Dissolved Solids,mg/L	278.0	500 Max.	-	2000.0Max	IS:3025(P-16)-1984

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

7 Aluminium (as Al)	0.101	0.03 Max.	0.0020	0.20Max	IS:3025(P-65)-2014
8 Barium (as Ba)	0.024	0.7 Max.	0.0020	-	IS:3025(P-65)-2014
9 Boron,	0.035	0.5 Max.	0.0020	2.40Max	IS:3025(P-65)-2014
10 Calcium (as Ca)	53.67	75 Max.	1.0	200.0Max	IS:3025(P-40)-2014
11 Chloride (as Cl)	56.15	250 Max.	1.0	1000.0Max	IS:3025(P-32)-1988
12 Copper (as Cu)	0.005	0.05 Max.	0.0020	1.50Max	IS:3025(P-65)-2014
13 Iron (as Fe)	0.221	1.0 Max.	0.0020	-	IS:3025(P-65)-2014
14 Magnesium (as Mg)	8.03	30 Max.	1.0	100.0Max	IS:3025(P-40)-1994
15 Manganese (as Mn)	0.132	0.1 Max.	0.0020	0.30Max	IS:3025(P-65)-2014
16 Nitrate (as NO3)	24.42	45 Max.	1.0	-	IS:3025(P-34)-1988
17 Selenium (as Se)	Below detection limit	0.01 Max.	0.0020	-	IS:3025(P-65)-2014
18 Silver (as Ag)	Below detection limit	0.1 Max.	0.0020	-	IS:3025(P-65)-2014
19 Sulphate (as SO4)	59.41	200 Max.	1.0	400.0Max	IS:3025(P-24)-1986
20 Total Alkalinity (as CaCO3)	67.88	200Max.	1.0	600.0Max	IS:3025(P-23)-1986

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CERTIFICATE OF ANALYSIS



27-



Report No. : 201909260134

TC-7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH
Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 1 Ltr
DYN09262019/04

<Test>	<Results>	<Acceptable Limit>	<LLQ>	<Permissible Limit>	<Method>
21 Total Hardness (as CaCO ₃)	166.86	200 Max.	1.0	600.0Max	IS:3025 (P-21) 2014
22 Zinc (as Zn)	0.382	5 Max.	0.0020	15.0Max	IS 3025(P-65) 2014

TABLE 1. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

23 Cadmium (as Cd)	Below detection limit	0.003 Max.	0.0020	-	IS 3025(P-65) 2014
24 * Lead (as Pb)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65) 2014
25 Mercury (as Hg)	Below detection limit	0.001 Max.	0.00080	-	IS 3025(P-65) 2014
26 Molybdenum (as Mo)	Below detection limit	0.07 Max.	0.0020	-	IS 3025(P-65) 2014
27 Nickel (as Ni)	Below detection limit	0.02 Max.	0.0020	-	IS 3025(P-65) 2014
28 Arsenic (as As)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65) 2014
29 Total Chromium (as Cr)	Below detection limit	0.06 Max.	0.0020	-	IS 3025(P-65) 2014

Note : The test marked with * are not accredited by NABL

Taste :- This test is not conducted as the sample is failing in other parameters.



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CERTIFICATE OF ANALYSIS

Report No.: 201909280297

TC-7375

Sample	DRINKING WATER			
Mfg. By	NS	Recd. On	26/09/2019	
Supplied By	NS	Mfg. Lic. No.	NS	
Submitted By	BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)		Ref. No.	NS
Address	PLOT NO-2019, SITE IV SAHIBABAD IND. AREA SAHIBABAD DIST., GHAZIABAD, UTTAR PRADESH-201010			
Batch No	Mfg. Date	Expiry Date	Batch Size	Sample Qty
QW/06272019/04	NS	NS	NS	10X1 Lt

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	28/09/2019	Date of completion of analysis	03/10/2019		

Sample not drawn by laboratory.

Reference to protocol

:- IS 10540:2012 (Amendment No. 2, Sep 2018)

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

1 Ammonia (Total NH ₃ -N)	0.29	0.1 Max.	0.1	-	IS:3025, P-34 (1988)
2 Anionic Detergents, (as MBAS)	0.14	0.2 Max.	0.050	1.0Max	ANX-K, IS:13428-2005
3 Chloramine (as Cl ₂)	Below detection limit	4.0 Max.	0.050	-	IS:3025, P-26 (1988)
4 Fluoride (as F)	Less than 1	1.0 Max.	0.050	1.50Max	IS:3025(P-60)2008
5 Residual Free Chlorine	Below detection limit	0.2 Min.	0.050	1.0Max	IS:3025(P-26)1988
6 Mineral oil	Below detection limit	0.5 Max.	0.1	-	IS:3025(P-39)1991 CL-6
7 Phenolic Compounds (as C ₆ H ₅ OH)	Below detection limit	0.001 Max.	0.0010	0.0020Max	IS:3025(P-43)1992, CL-6
8 Sulphide (as H ₂ S)	Below detection limit	0.05 Max.	0.030	-	IS:3025(P-29)1988

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

9 Cyanide (as CN)	Below detection limit	0.05 Max.	0.020	-	IS-3025(P-27)1986
10 Polychlorinated biphenyle (PCB)	Below Detection Limit	0.0005 Max.	0.000050	-	APHA 23rd Edn. 6630
11 Polynuclear aromatic hydrocarbons (PAH)	Below Detection Limit	0.0001 Max.	0.000050	-	APHA 23rd Edn. 6440
TRIHALOMETHANES(mg/L):					
12 (a) Bromoform	Below detection limit	0.1 Max.	0.050	-	APHA 6232
13 (b) Dibromochloromethane	Below detection limit	0.1 Max.	0.050	-	APHA 6232
14 (c) Bromodichloromethane	Below detection limit	0.06 Max.	0.050	-	APHA 6232
15 (d) Chloroform	Below detection limit	0.2 Max.	0.050	-	APHA 6232

TABLE 5: PESTICIDE RESIDUES ($\mu\text{g/l}$)



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CERTIFICATE OF ANALYSIS

Report No.: 201909280297

TC-7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 10X1 Ltr
DW08272019/04

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
16 Atrachlor	Below Detection Limit	20 Max.	0.050	-	USEPA 525.2
17 Atrazine	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
18 Aldrin & Dieldrin	Below Detection Limit	0.03 Max.	0.0050	-	USEPA 508
19 Alpha-HCH	Below Detection Limit	0.01 Max.	0.0050	-	USEPA 508
20 Beta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
21 Butachlor	Below Detection Limit	125 Max.	0.050	-	USEPA 8141A
22 Chlorpyrifos	Below Detection Limit	30 Max.	0.050	-	USEPA 8141A
23 Delta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
24 2,4-D	Below detection limit.	30 Max.	0.050	-	EPA 515.3
25 DDT (O, P & P, P isomers of DDT, DDE & DDD)	Below Detection Limit	1 Max.	0.050	-	USEPA 508
26 Endosulfan (Alpha, Beta & Sulphate)	Below Detection Limit	0.4 Max.	0.0050	-	USEPA-508
27 Ethion	Below Detection Limit	3 Max.	0.050	-	USEPA 1657 A
28 Gamma-HCH (Lindane)	Below Detection Limit	2 Max.	0.0050	-	USEPA 508
29 Isoproturon	Below detection limit.	9 Max.	0.050	-	USEPA 532
30 Malathion	Below Detection Limit	190 Max.	0.050	-	USEPA 8141A
31 Methyl Parathion	Below Detection Limit	0.3 Max.	0.050	-	USEPA 8141A
32 Monocrotophos	Below Detection Limit	1 Max.	0.050	-	USEPA 8141A
33 Phorate	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
34 Total Pesticide Residue	Below Detection Limit	-	-	-	By Calculation

BACTERIOLOGICAL TESTS

35 * Escherichia coli (100 ml)	Absent	Not detectable	-	IS:15185-2016
36 * Coliform (100ml)	Present	Not detectable	-	IS:15185-2016

The above sample does not comply w.r.t Coliform

Note: The test marked with * are not accredited by NABL

Page 2 of 2

Date : Thursday Oct 03, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA, Tele : +91-11-45754575, Fax : +91-11-45754575
Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com Dr. Rahamath.



Certificate No.: TC-1000



Test Report

Report No.: M19200040751	ULR No.: TCS955190000523217	Date of Report.: 14/10/2019
Customer Detail		
Name of Customer	Bureau of Indian Standards, Central Laboratory	
Address	Plot No. 20/5, Site IV, Sahibabad Industrial Area, Sahibabad, Ghaziabad, Uttar Pradesh	
Contact Person	Sachchidananda Kumar	
Pin Code	201010	
Sample(s) Drawn by The Laboratory	No	
Sample Details		
Sample Name	Drinking Water	
Nature	Liquid	Ref : DW/30042019/05
Qty	20L & 40L	Sealed : Yes
Packing	PET Jar	
Laboratory Analysis Detail		
Testing performed at	Permonorm facility	Date of sample Receipt : 09/10/2019
Date of starting Analysis	10/10/2019	Date of Completion : 14/10/2019

Deviation in Environmental condition which may affect the result or required for interpretation of result: No

Biological Testing:

Water

Parameter	Method	Result	LOQ	Specification	Unit	Deviation/ addition/ exclusion from method
MS2 Inhib	USEPA method 1609	Absent	-	Absent	fl	No
Garda	ISO 15553 : 2006	Absent	-	Absent	/10L	No
Cryptosporidium	ISO 15553 : 2006	Absent	-	Absent	/10L	No

Remarks: The tested sample complies to IS 10500 : 2012 specification for the above tests conducted.

END

Signature
03.10.2019

Signature
P001USR322141019133638
Authorized Signatory
Sunia Reddy
HOD-Microbiology



M19200040751

Page 1 of 2

Microchem Srilax Pte. Ltd, Microchem House, A-512, TTC Industrial Area, MIDC, Bhiwandi, Navi Mumbai 400701, India
Tel: +91-22-39469700 Fax: +91-22-39469701 Email: customers@microchem.com
CIN:U24233MH2007PTC178536 GST:27AFCM8889P220 PAN:AAFCM5885P TAN:MUMW1680B



Certificate No.: TC-498



Test Report

Report No.: M19200040751	URL No.: TCS9601900052311F	Date of Report: 14/10/2019
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4. Laboratory is not responsible for the authenticity of photocopied test report
5. The test items will not be retained for perishable products and will be retained for 1 month in case of non-perishable samples unless otherwise agreed with the customer or as required by the applicable regulation
6. The tests marked with (*) are not accredited by NABL
7. The tests marked with (O) are OutSource
8. The Report no. with suffix R - Revised Report
9. This is a computer generated document with electronic signature hence does not require manual Signature
10. The Statement of compliance is based on a 95% coverage probability for the expanded uncertainty
11. The information pertaining to sample tested have been provided by client
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*Dr. Arun
02.10.2019*



M19200040751

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Micronutrient Pvt. Ltd., Micronutrient House, A-511, TTC Industrial Area, MIDC, Mahape, Navi Mumbai 400701, India
Tel: +91-22-38469799 Fax: +91-22-38469701 Email: customercare.in@micronutrient.com
CIN: U24233MH2007PTC170538 GST: 27AFCM855P220 PAN: AAFCM855P TAN: NUM426808

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CERTIFICATE OF ANALYSIS



Report No. : 201909260133



TC-7376

Sample : DRINKING WATER
 Mfg. By : NS
 Supplied By : NS
 Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
 Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DIST., GHAZIABAD, UTTAR PRADESH.
 Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 1 Ltr
 DW0926201905

Recd. On : 26/09/2019
 Mfg lic. No. : NS
 Ref. No. : NS, DATE : 26/09/2019

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	26/09/2019				
					Date of completion of analysis 04/10/2019

Sample not drawn by laboratory.

Reference to protocol : IS 10580:2012 (Amendment No. 2, Sep 2018)

TABLE 1. ORGANOLEPTIC AND PHYSICAL PARAMETERS

1 Description	Yellow turbid liquid having sediments & suspended particles				
2 Colour (Hazen unit)	27.0	5.0 Max.	-	10.0Max	IS:3025(P-4)-1983
3 Odour	Disagreeable	Agreeable	-	Agreeable	IS:3025(P-5)-1983
4 pH Value	5.04	6.5-8.5	-	-	IS:3025(P-11)-1983
5 Turbidity (NTU)	25.7	1 Max.	-	5.0Max	IS:3025(P-10)-1984
6 Total Dissolved Solids,mg/L	372.0	500 Max.	-	2000.0Max	IS:3025(P-16)-1984

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

7 Aluminium (as Al)	Below detection limit	0.03 Max.	0.0020	0.20Max	IS:3025(P-65)-2014
8 Barium (as Ba)	0.220	0.7 Max.	0.0020	-	IS:3025(P-65)-2014
9 Boron	Below detection limit	0.5 Max.	0.0020	2.40Max	IS:3025(P-65)-2014
10 Calcium (as Ca)	47.47	75 Max.	1.0	200.0Max	IS:3025(P-40)-2014
11 Chloride (as Cl)	53.17	250 Max.	1.0	1000.0Max	IS:3025(P-32)-1988
12 Copper (as Cu)	Below detection limit	0.05 Max.	0.0020	1.50Max	IS:3025(P-65)-2014
13 Iron (as Fe)	1.401	1.0 Max.	0.0020	-	IS:3025(P-65)-2014
14 Magnesium (as Mg)	18.81	30 Max.	1.0	100.0Max	IS:3025(P-46)-1994
15 Manganese (as Mn)	1.543	0.1 Max.	0.0020	0.30Max	IS:3025(P-65)-2014
16 Nitrate (as NO3)	39.98	45 Max.	1.0	-	IS:3025(P-34)-1988
17 Selenium (as Se)	Below detection limit	0.01 Max.	0.0020	-	IS:3025(P-65)-2014
18 Silver (as Ag)	Below detection limit	0.1 Max.	0.0020	-	IS:3025(P-65)-2014
19 Sulphate (as SO4)	115.15	200 Max.	1.0	400.0Max	IS:3025(P-24)-1986
20 Total Alkalinity (as CaCO3)	20.5	200Max.	1.0	600.0Max	IS:3025(P-23)-1986

Page 1 of 2

Date : Friday Oct 04, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA, Tele : +91-11-45754575, Fax : +91-11-45854500
 Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

Dr. Rahamath. SK

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CERTIFICATE OF ANALYSIS



Report No. : 201905260133



TC-7376

Sample : DRINKING WATER
 Mfg. By : NS
 Supplied By : NS
 Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
 Address : PLOT NO-2019, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH-
 Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 1 Ltr
 DW/09262019/05

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
21 Total Hardness (as CaCO ₃)	195.7	200 Max.	1.0	500.0Max	IS-3025 (P-21) 2014
22 Zinc (as Zn)	0.169	5 Max.	0.0020	15.0Max	IS 3025(P-65):2014
TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)					
23 Cadmium (as Cd)	Below detection limit	0.003 Max.	0.0020	-	IS 3025(P-65):2014
24 * Lead (as Pb)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65):2014
25 Mercury (as Hg)	Below detection limit	0.001 Max.	0.00080	-	IS 3025(P-65):2014
26 Molybdenum (as Mo)	Below detection limit	0.07 Max.	0.0020	-	IS 3025(P-65):2014
27 Nickel (as Ni)	Below detection limit	0.02 Max.	0.0020	-	IS 3025(P-65):2014
28 Arsenic (as As)	0.003	0.01 Max.	0.0020	-	IS 3025(P-65):2014
29 Total Chromium (as Cr)	Below detection limit	0.05 Max.	0.0020	-	IS 3025(P-65):2014

03.10.2019
 Dr. Rahmath CK

Note : The test marked with * are not accredited by NABL

Taste :- This test is not conducted as the sample is failing in other parameters.

Page 2 of 2

Date : Friday, Oct. 04, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45845500

Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

Dr. Rahmath CK

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Certificate No.: TC-1568

Test Report

Report No.: MS200040737	UIN No.: TCS9601900052316F	Date of Report.: 14/10/2019
-------------------------	----------------------------	-----------------------------

Note:

1. The results reported relate only to the sample(s) tested.
2. In case sample is not drawn the results apply to the sample as received.
3. This test report in full or in part, shall not be reproduced, used for any legal action, without prior written approval of laboratory.
4. Laboratory is not responsible for the authenticity of photocopied test report.
5. The test items will not be retained for perishable products and will be retained for 1 month in case of non-perishable samples unless otherwise agreed with the customer or as required by the applicable regulation.
6. The tests marked with (*) are not accredited by NABL.
7. The tests marked with (H) are OutSource
8. The Report no. with suffix R - Revised Report.
9. This is a computer generated document with electronic signature hence does not require manual signature.
10. The Statement of compliance is based on a 95% coverage probability for the expanded uncertainty.
11. The information pertaining to sample tested have been provided by client.
12. To confirm the authenticity of this certificate of analysis, please contact us through <http://bit.ly/anytimeenquiry> or email us the scanned copy of the certificate at qa.in@merieux.com

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27/10/2019



MS200040737

Page 2 of 2

Microchem SiltHer Pvt. Ltd., Microchem House, A-512, TTC Industrial Area, MIDC, Wakape, Navi Mumbai 400701, India
Tel.: +91-22-33489700, Fax: +91-22-33489701 Email: customercare.in@merieux.com
CIN: U24233MH2007PTC176536 GST: 27APCM5655P2Z0 PAN: AAPCM3855P TAN: WJWW42662B



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ANALYTICAL DIVISION

ISO 9001 : 2015 Certified

Govt. Approved Test House

CERTIFICATE OF ANALYSIS



Report No.: 201909260132

TC-7329

Sample : DRINKING WATER

Mfg. By : NS

Supplied By : NS

Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)

Address : PLOT NO-2019, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.

Batch No. 201010 Mfg. Date

NS

Expiry Date

145

Batch Size

NS

Sample Quantity

1.00

«Три!»

29. Results

«Acceptable Limit»

<LQ>

<Permissible Link>

«Method»

Date of start of analysis

26/09/2019

Date of completion of analysis

04/10/2019

Sample not drawn by laboratory.

Reference to protocol

IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 1. ORGANOLEPTIC AND PHYSICAL PARAMETERS

1 Description	Turbid liquid having sediments & suspended particles				
2 Colour (Hazen unit)	25	5.0 Max.	-	15.0Max	IS:3025(P-4)-1983
3 * Odour	Disagreeable	Agreeable	-	Agreeable	IS:3025(P-5)-1983
4 pH Value	6.14	6.5-8.5	-	-	IS:3025(P-11)-1983
5 Turbidity (NTU)	22.7	1 Max.	-	5.0Max	IS:3025(P-10)-1984
6 Total Dissolved Solids,mg/L	135.0	500 Max.	-	2000.0Max	IS:3025(P-16)-1984

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

7 Aluminum (as Al)	0.192	0.03 Max.	0.0020	0.20Max	IS 3025(P-65):2014
8 Barium (as Ba)	0.033	0.7 Max.	0.0020	-	IS 3025(P-65):2014
9 Boron,	0.028	0.5 Max.	0.0020	2.40Max	IS 3025(P-65):2014
10 Calcium (as Ca)	30.55	75 Max.	1.0	200.0Max	IS 3025(P-40):2014
11 Chloride (as Cl)	25.97	250 Max.	1.0	1000.0Max	IS 3025(P-32):1988
12 Copper (as Cu)	0.003	0.06 Max.	0.0020	1.50Max	IS 3025(P-65):2014
13 Iron (as Fe)	0.025	1.0 Max.	0.0020	-	IS 3025(P-65):2014
14 Magnesium (as Mg)	4.51	30 Max.	1.0	100.0Max	IS 3025 (P-46):1994
15 Manganese (as Mn)	Below detection limit	0.1 Max.	0.0020	0.30Max	IS 3025(P-65):2014
16 Nitrate (as NO3)	18.84	45 Max.	1.0	-	IS 3025(P-34):1988
17 Selenium (as Se)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-66):2014
18 Silver (as Ag)	Below detection limit	0.1 Max.	0.0020	-	IS 3025(P-65):2014

Page 1 of 2

Date: Friday, Oct 04, 2019

Authorized Signatory

Unit 1: 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele: +91-11-45754575, Fax: +91-11-45854500

Email : arbitrolab@arthropharma.com, Website : www.arthropharmaindia.com

Dr. Rahamath. S

346


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ISO 9001 : 2015 Certified

Govt. Approved Test House

CERTIFICATE OF ANALYSIS

Report No. : 201909260132



TC-7378

Sample : DRINKING WATER
 Mfg. By : NS
 Supplied By : NS
 Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
 Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
 Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 1 Ltr
 DW/09262019/06

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
19 Sulphate (as SO ₄).	24.76	200 Max.	1.0	400.0Max	IS:3025(P-24):1988
20 Total Alkalinity (as CaCO ₃)	24.0	200Max.	1.0	600.0Max	IS:3025(P-23):1986
21 Total Hardness (as CaCO ₃)	94.76	200 Max.	1.0	600.0Max	IS:3025 (P-21):2014
22 Zinc (as Zn)	0.192	5 Max.	0.0020	15.0Max	IS:3025(P-65):2014

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

23 Cadmium (as Cd)	Below detection limit	0.003 Max.	0.0020	-	IS:3025(P-65):2014
24 * Lead (as Pb)	Below detection limit	0.01 Max.	0.0020	-	IS:3025(P-65):2014
25 Mercury (as Hg)	Below detection limit	0.001 Max.	0.00000	-	IS:3025(P-65):2014
26 Molybdenum (as Mo)	Below detection limit	0.07 Max.	0.0020	-	IS:3025(P-65):2014
27 Nickel (as Ni)	Below detection limit	0.02 Max.	0.0020	-	IS:3025(P-65):2014
28 Arsenic (as As)	Below detection limit	0.01 Max.	0.0020	-	IS:3025(P-65):2014
29 Total Chromium (as Cr)	Below detection limit	0.05 Max.	0.0020	-	IS:3025(P-65):2014

Note : The test marked with * are not accredited by NABL

Taste :- This test is not conducted as the sample is failing in other parameters.

Page 2 of 2

Date :- Friday, Oct. 04, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-49495566

Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

Dr. Rahamath. SK



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CERTIFICATE OF ANALYSIS

Report No. : 201909280296

TC-7376

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010
Mfg. Date : NS
Expiry Date : NS
Batch Size : NS
Sample Quantity : 10X1 Ltr

Recd. On : 28/09/2019

Mfg. No. : NS

Ref. No. : NS

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	28/09/2019	Date of completion of analysis	03/10/2019		

Sample not drawn by laboratory.

Reference to protocol

IS 10500:2012 (Amendment No. 2, Sep 2016)

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

1 Ammonia (Total NH ₃ -N)	0.23	0.1 Max.	0.1	-	IS:3025, P-34 1988
2 Anionic Detergents (as MBAS)	0.11	0.2 Max.	0.050	1.0Max	ANX-K, IS:13428-2005
3 Chloramine (as Cl ₂)	Below detection limit	4.0 Max.	0.050	-	IS:3025, P-26 (1986)
4 Fluoride (as F)	Less than 1	1.0 Max.	0.050	1.50Max	IS:3025(P-60)2008
5 Residual Free Chlorine	Below detection limit	0.2 Min.	0.050	1.0Max	IS:3025(P-26)1986
6 Mineral oil	Below detection limit	0.5 Max.	0.1	-	IS:3025(P-39)1991, CL-6
7 Phenolic Compounds (as C ₆ H ₅ OH)	0.005	0.001 Max.	0.0010	0.0020Max	IS:3025(P-43)1992, CL-6
8 Sulphide(as H ₂ S)	Below detection limit	0.05 Max.	0.030	-	IS:3025(P-29)1986

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

9 Cyanide (as CN)	Below detection limit	0.05 Max.	0.020	-	IS:3025(P-27)1986
10 Polychlorinated biphenyls (PCB)	Below Detection Limit	0.0005 Max.	0.000050	-	APHA 23rd Edn. 6630
11 Polynuclear aromatic hydrocarbons (PAH)	Below Detection Limit	0.0001 Max.	0.000050	-	APHA 23rd Edn.6440
TRICHALOMETHANES(mg/L):					
12 (a) Bromoform	Below detection limit	0.1 Max.	0.050	-	APHA 6232
13 (b) Dibromochloromethane	Below detection limit	0.1 Max.	0.050	-	APHA 6232
14 (c) Bromodichloromethane	Below detection limit	0.05 Max.	0.050	-	APHA 6232
15 (d) Chloroform	Below detection limit	0.2 Max.	0.050	-	APHA 6232

TABLE 5 : PESTICIDE RESIDUES (µg/l)



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CERTIFICATE OF ANALYSIS

Report No. : 201909280295

TC 7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010
Mfg. Date : NS
Expiry Date : NS
Batch Size : NS
Sample Quantity : 10X1 Ltr

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
16 Alachlor	Below Detection Limit	20 Max.	0.050	-	USEPA 525.2
17 Alazina	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
18 Aldin & Dieldrin	Below Detection Limit	0.03 Max.	0.0050	-	USEPA 508
19 Alpha-HCH	Below Detection Limit	0.01 Max.	0.0050	-	USEPA 508
20 Beta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
21 Butachlor	Below Detection Limit	125 Max.	0.050	-	USEPA 8141A
22 Chlorpyrifos	Below Detection Limit	30 Max.	0.050	-	USEPA 8141A
23 Delta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
24 2,4-D	Below detection limit	30 Max.	0.050	-	EPA 515.3
25 DDT (O, P & P, P Isomers of DDT, DDE & DDD)	Below Detection Limit	1 Max.	0.050	-	USEPA 508
26 Endosulfan (Alpha, Beta & Sulphate)	Below Detection Limit	0.4 Max.	0.0050	-	USEPA-508
27 Ethion	Below Detection Limit	3 Max.	0.050	-	USEPA 1657 A
28 Gamma-HCH (Lindane)	Below Detection Limit	2 Max.	0.0050	-	USEPA 508
29 Isoproturon	Below detection limit	9 Max.	0.050	-	USEPA 532
30 Malathion	Below Detection Limit	190 Max.	0.050	-	USEPA 8141A
31 Methyl Parathion	Below Detection Limit	0.3 Max.	0.050	-	USEPA 8141A
32 Monocrotophos	Below Detection Limit	1 Max.	0.050	-	USEPA 8141A
33 Phorate	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
34 Total Pesticide Residue	Below Detection Limit	-	-	-	By Calculation

BACTERIOLOGICAL TESTS

35 * Escherichia coli /100 ml.	Absent	Not detectable	-	-	IS:15185-2016
36 * Coliform /100ml	Present	Not detectable	-	-	IS:15185-2016

Note : The test marked with * are not accredited by NABL
The above sample does not comply w.r.t. Coliform

Page 2 of 2

Date : Thursday, Oct 03, 2019

Authorized Signatory

Unit : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45754575

Email : arbrolab@arbropharma.com. Website : www.arbropharmaindia.com

*Terms & Conditions Overleaf

Dr. Rahamath. S!



Certificate No.: TC-4869



Test Report

Report No.: M19200040740	ULR No.: FC9960190000513179	Date of Report: 14/10/2019
Customer Detail		
Name of Customer	Bureau of Indian Standards, Central Laboratory	
Address	Plot No. 20/3, Site IV, Sahibabad Industrial Area, Sahibabad, Ghaziabad, Uttar Pradesh	
Contact Person	Sachchidananda Kumar	
Pin Code	201010	
Sample(s) Drawn by The Laboratory	no	
Sample Details		
Sample Name	Drinking Water	
Nature	Liquid	Ref : DW/10012019/07
Qty	20L X 5 Lit	Sealed : Yes
Packing	PET Jar	
Laboratory Analysis Detail		
Testing performed at	Permanent Facility	Date of sample Receipt : 09/10/2019
Date of starting Analysis	10/10/2019	Date of Completion : 14/10/2019

Deviation in Environmental condition which may affect the result or required for interpretation of result: No

Biological Testing:

Water

Parameter	Method	Result	LOD	Specification	Unit	Deviation/ addition/ exclusion from method
MS2 Phage	US EPA method 1601	Absent	-	Absent	A	No
Gardia	ISO 15553 - 2006	Absent	-	Absent	/101	No
Cryptosporidium	ISO 15553 - 2006	Absent	-	Absent	/101	No

Remarks: The tested sample complies to IS 10500 - 2012 specification for the above tests conducted.
..... END

Signature
02/10/2019

Signature
P001USR322141019133731
Authorized Signatory
Sunita Reddy
HOD-Microbiology

M19200040740

Page 1 of 3

Microchem Biotek Pvt. Ltd., Microchem House, A-513, TTC Industrial Area, MIDC, Raheja, Navi Mumbai 400701, India
Tel: +91-22-28468700, Fax: +91-22-28469751, Email: customers@microchem.com
CIN: U24203MH2007PTC170503, GST: 27AFCM5885P1Z0, PAN: AAFCM5885P, TAN: MUMMA2680B



Certificate No.: TC-0940



Test Report

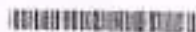
Report No.: 6419200040740	ULR No.: TCS960190000513175	Date of Report.: 14/10/2019
---------------------------	-----------------------------	-----------------------------

Note:

1. The results reported relate only to the sample(s) tested.
2. In case sample is not drawn the results apply to the sample as received.
3. This test report, in full or in part, shall not be reproduced, used for any legal action, without prior written approval of laboratory.
4. Laboratory is not responsible for the authenticity of photocopied test report.
5. The test items will not be retained for perishable products and will be retained for 1 month in case of non-perishable samples unless otherwise agreed with the customer or as required by the applicable regulation.
6. The tests marked with (*) are not accredited by NABL.
7. The tests marked with (R) are OutSource.
8. The Report no. with suffix R- Revised Report.
9. This is a computer generated document with electronic signature hence does not require manual signature.
10. The Statement of compliance is based on a 95% coverage probability for the expanded uncertainty.
11. The information pertaining to sample tested have been provided by client.
12. To confirm the authenticity of this certificate of analysis, please contact us through <http://bit.ly/authenticityna> or email us the scanned copy of the certificate at qa.in@meri.com

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Handwritten signature and date: 07-10-2019



6419200040740

Page 1 of 2

Microchem Silver Pvt. Ltd., Microchem House, A-513, TTC Industrial Area, MIDC, Mahape, Navi Mumbai 400701, India
Tel.: +91-22-39469700 Fax: +91-22-39469701 Email: customerservice.in@meri.com
-CN:U24233MH0007PTC170636 -GST:27AFCN5805P220 -PAN:AAPCN5856P -TAN:MLJMN42680B



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CERTIFICATE OF ANALYSIS



Report No. : 201909260131



TC-7378

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 1 Lr
DW/09262019/07

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	26/09/2019	Date of completion of analysis	04/10/2019		

Sample not drawn by laboratory.

Reference to protocol : IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 1. ORGANOLEPTIC AND PHYSICAL PARAMETERS

1 Description	Yellow turbid liquid having sediments & suspended particles				
2 Colour (Hazen unit)	1	5.0 Max.	-	15.0Max	IS:3025(P-4)-1983
3 Odour	Disagreeable	Agreeable	-	Agreeable	IS:3025(P-5)-1983
4 pH Value	7.08	6.5-8.5	-	-	IS:3025(P-11)-1983
5 Turbidity (NTU)	0.5	1 Max.	-	5.0Max	IS:3025(P-10)-1984
6 Total Dissolved Solids,mg/L	1154.0	500 Max.	-	2000.0Max	IS:3025(P-16)-1984

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

7 Aluminium (as Al)	0.031	0.03 Max.	0.0020	0.20Max	IS:3025(P-65)-2014
8 Barium (as Ba)	0.074	0.7 Max.	0.0020	-	IS:3025(P-65)-2014
9 Boron,	0.176	0.5 Max.	0.0020	2.40Max	IS:3025(P-65)-2014
10 Calcium (as Ca)	185.77	75 Max.	1.0	200.0Max	IS:3025(P-40)-2014
11 Chloride (as Cl)	266.73	250 Max.	1.0	1000.0Max	IS:3025(P-32)-1988
12 Copper (as Cu)	0.012	0.05 Max.	0.0020	1.50Max	IS:3025(P-65)-2014
13 Iron (as Fe)	0.041	1.0 Max.	0.0020	-	IS:3025(P-65)-2014
14 Magnesium (as Mg)	47.65	30 Max.	1.0	100.0Max	IS:3025(P-46)-1994
15 Manganese (as Mn)	1.002	0.1 Max.	0.0020	0.30Max	IS:3025(P-65)-2014
16 Nitrate (as NO3)	84.54	45 Max.	1.0	-	IS:3025(P-34)-1988
17 Selenium (as Se)	Below detection limit	0.01 Max.	0.0020	-	IS:3025(P-65)-2014



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Govt. Approved Test House

CERTIFICATE OF ANALYSIS



Report No. : 201909260131

TC-7376

Sample : DRINKING WATER

Mfg. By : NS

Supplied By : NS

Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)

Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.

Batch No : 201010 Mfg. Date :

DW/09262019/07

NS

Expiry Date : NS

Batch Size : NS

Sample Quantity : 1 Ltr

Recd. On : 26/09/2019

Mfg lic. No. : NS

Ref. No. : NS, DATE : 26/09/2019

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
18 Silver (as Ag)	Below detection limit	0.1 Max.	0.0020	-	IS 3025(P-65):2014
19 Sulphate (as SO ₄)	235.0	200 Max.	1.0	400.0Max	IS 3025(P-24):1986
20 Total Alkalinity (as CaCO ₃)	471.5	200Max.	1.0	600.0Max	IS 3025(P-23):1986
21 Total Hardness (as CaCO ₃)	659.2	200 Max.	1.0	600.0Max	IS:3025 (P-21) 2014
22 Zinc (as Zn)	0.090	5 Max.	0.0020	15.0Max	IS 3025(P-65):2014

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

23 Cadmium (as Cd)	Below detection limit	0.003 Max.	0.0020	-	IS 3025(P-65):2014
24 * Lead (as Pb)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65):2014
25 Mercury (as Hg)	Below detection limit	0.001 Max.	0.00080	-	IS 3025(P-65):2014
26 Molybdenum (as Mo)	Below detection limit	0.07 Max.	0.0020	-	IS 3025(P-65):2014
27 Nickel (as Ni)	Below detection limit	0.02 Max.	0.0020	-	IS 3025(P-65):2014
28 Arsenic (as As)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65):2014
29 Total Chromium (as Cr)	Below detection limit	0.05 Max.	0.0020	-	IS 3025(P-65):2014

Note : The test marked with * are not accredited by NABL

Taste :- This test is not conducted as the sample is failing in other parameters.

Page 2 of 2

Date :- Friday, Oct. 04, 2019

Dr. Rahamath SK
Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-43754575, Fax : +91-11-43854506

Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

Dr. Rahamath, SK



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CERTIFICATE OF ANALYSIS

Report No. : 201909280295

TC-7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 10X1 Lit
CWC/09282019/07

Recd. On : 28/09/2019

Mfg lic. No. : NS

Ref. No. : NS

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	28/09/2019				
					Date of completion of analysis 03/10/2019

Sample not drawn by laboratory.

Reference to protocol : IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

1 Ammonia (Total NH ₃ -N)	0.23	0.1 Max.	0.1	-	IS 3025, P-34 1986
2 Anionic Detergents (as MBAS)	0.21	0.2 Max.	0.050	1.0Max	ANX-K, IS 13428-2005
3 Chloramine (as Cl ₂)	Below detection limit	4.0 Max.	0.050	-	IS 3025, P-26 (1986)
4 Fluoride (as F)	Less than 1	1.0 Max.	0.050	1.50Max	IS 3025(P-60)2008
5 Residual Free Chlorine	Below detection limit	0.2 Min.	0.050	1.0Max	IS 3025(P-26)1986
6 Mineral oil	Below detection limit	0.5 Max.	0.1	-	IS 3025(P-39)1991, CL-6
7 Phenolic Compounds (as C ₆ H ₅ OH)	0.02	0.001 Max.	0.0010	0.0020Max	IS 3025(P-43)1992, CL-6
8 Sulphide(as H ₂ S)	Below detection limit	0.05 Max.	0.030	-	IS 3025(P-29)1986

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

9 Cyanide (as CN)	Below detection limit	0.05 Max.	0.020	-	IS 3025(P-27)1986
10 Polychlorinated biphenyls (PCB)	Below Detection Limit	0.0005 Max.	0.000050	-	APHA 23rd Edn. 6630
11 Polynuclear aromatic hydrocarbons (PAH)	Below Detection Limit	0.0001 Max.	0.000050	-	APHA 23rd Edn. 6440
TRIALOMETHANES(mg/L):					
12 (a) Bromoform	Below detection limit	0.1 Max.	0.050	-	APHA 6232
13 (b) Dibromochloromethane	Below detection limit	0.1 Max.	0.050	-	APHA 6232
14 (c) Bromodichloromethane	Below detection limit	0.06 Max.	0.050	-	APHA 6232
15 (d) Chloroform	Below detection limit	0.2 Max.	0.050	-	APHA 6232

TABLE 5 : PESTICIDE RESIDUES (µg/l)



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CERTIFICATE OF ANALYSIS

Report No. : 201908280295

TC-7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-2019, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT. GHAZIABAD, UTTAR PRADESH-
Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 10X1 Lit
DWI09282019/07

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
16 Atrachlor	Below Detection Limit	20 Max.	0.050	-	USEPA 525.2
17 Atrazine	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
18 Aldrin & Dieldrin	Below Detection Limit	0.03 Max.	0.0050	-	USEPA 508
19 Alpha-HCH	Below Detection Limit	0.01 Max.	0.0050	-	USEPA 508
20 Beta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
21 Butachlor	Below Detection Limit	125 Max.	0.050	-	USEPA 8141A
22 Chlorpyrifos	Below Detection Limit	30 Max.	0.050	-	USEPA 8141A
23 Delta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
24 2,4-D	Below detection limit	30 Max.	0.050	-	EPA 515.3
25 DDT (O, P & P, P isomers of DDT, DDE & DDD)	Below Detection Limit	1 Max.	0.050	-	USEPA 508
26 Endosulfan (Alpha, Beta & Sulphate)	Below Detection Limit	0.4 Max.	0.0050	-	USEPA-508
27 Ethion	Below Detection Limit	3 Max.	0.050	-	USEPA 1657 A
28 Gamma-HCH (Lindane)	Below Detection Limit	2 Max.	0.0050	-	USEPA 508
29 Isoproturon	Below detection limit	9 Max.	0.050	-	USEPA 532
30 Malathion	Below Detection Limit	190 Max.	0.050	-	USEPA 8141A
31 Methyl Parathion	Below Detection Limit	0.3 Max.	0.050	-	USEPA 8141A
32 Monocrotophos	Below Detection Limit	1 Max.	0.050	-	USEPA 8141A
33 Phorate	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
34 Total Pesticide Residue	Below Detection Limit	-	-	-	By Calculation

BACTERIOLOGICAL TESTS

35 * Escherichia coli /100 ml	Absent	Not detectable	-	IS:15185-2016
36 * Coliform /100ml.	Present	Not detectable	-	IS:15185-2016

The above sample does not comply w.r.t. Coliform.
Note : The test marked with * are not accredited by NABL



Certificate No.: IC-0199



Test Report

Report No.:	M10200040748	ULR No.:	TES9601900052320F	Date of Report.:	14/10/2019
Customer Detail					
Name of Customer	Bureau of Indian Standards, Central Laboratory				
Address	Plot No. 20/9, Site IV, Sahibabad Industrial Area, Sahibabad, Ghaziabad, Uttar Pradesh				
Contact Person	Sachchidananda Kumar				
Pin Code	201010				
Sample(s) Drawn by The Laboratory	No				
Sample Details					
Sample Name	Drinking Water				
Nature	Liquid	Ref	Dw/10033019/08		
Qty	20L X 5Ltr	Sealed	Yes		
Packing	PET jar				
Laboratory Analysis Detail					
Testing performed at	Permanent facility	Date of sample Receipt	09/10/2019		
Date of starting Analysis	10/10/2019	Date of Completion	14/10/2019		

Deviation in Environmental condition which may affect the result or required for interpretation of result: No

Biological Testing:

Water

Parameter	Method	Result	LOQ	Specification	Unit	Deviation/ addition/ exclusion from method
M52 Phage	US EPA method 1601	Absent	-	Absent	A	No
Gardis	ISO 15553-2005	Absent	-	Absent	/100 l	No
Cryptosporidium	ISO 15553-2005	Absent	-	Absent	/100 l	No

Remarks: The tested sample complies to IS 10500 - 2012 specification for the above tests conducted.

..... END

Signature
03.10.2019

Signature

PROXY IN THE LABORATORY FOR THE SIGNATURE
P001USR322141019133825

Authorized Signatory

Sunita Reddy

HCO-Microbiology



M0200040748

Page 2 of 2

Microchem Silliker Pvt. Ltd., Microchem House, A-513, TTC Industrial Area, WEC, Mahape, Navi Mumbai 400781, India
Tel.: +91-22-38468700 Fax: +91-22-38468701 Email: customerscare.in@microchem.com
CIN: U24232MH2007PTC178536 GST: 27AFCM5855P220 PAN: AAFCM5855P TAN: MUMM420000

336

47



Certificate No.: TC-5948

MERIEUX
 NutriSciences

Test Report

Report No.: M1920004074K	ULR No.: TCS96019080051320F	Date of Report: 14/10/2019
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Note:

1. The results reported relate only to the sample(s) tested.
2. In case sample is not drawn the results apply to the sample as received.
3. This test report in full or in part, shall not be reproduced, used for any legal action, without prior written approval of laboratory.
4. Laboratory is not responsible for the authenticity of photocopied test report.
5. The test items will not be retained for perishable products and will be retained for 3 month in case of non-perishable samples unless otherwise agreed with the customer or as required by the applicable regulation.
6. The tests marked with (*) are not accredited by NABL.
7. The tests marked with (R) are Outsource.
8. The Report no. with suffix R - Revised Report.
9. This is a computer generated document with electronic signature hence does not require manual Signature.
10. The Statement of compliance is based on a 95% coverage probability for the expanded uncertainty.
11. The information pertaining to sample tested have been provided by client.
12. To confirm the authenticity of this certificate of analysis, please contact us through <http://live.law.in> or email us the scanned copy of the certificate at qa@mans.com

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 07.10.2019



M1920004074K

Page 2 of 2

Microchem Siltaker Pvt. Ltd., Microchem House, A-513, TTC Industrial Area, MIDC, Mahape, Navi Mumbai 406705, India
 Tel: +91-22-39469703 / Fax: +91-22-39469701 - Email: customercare@live.law.in
 CIN: U24213MH2007PTC176636 GST: 27AFCM2655P120 PAN: AAFCM6885P TAN: NUMM426989B



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(ANALYTICAL DIVISION)

ISO 9001 : 2015 Certified

Govt. Approved Test House

CERTIFICATE OF ANALYSIS



Report No. : 201905260130



TC-7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/0, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH-
Batch No : 201010 Mfg. Date : NS
DWM09262019/08

Recd. On : 26/09/2019
Mfg Lic. No. : NS
Ref. No. : NS, DATE : 26/09/2019

Batch Size : NS
Sample Quantity : 1 Ltr

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
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Date of start of analysis : 26/09/2019

Date of completion of analysis : 04/10/2019

Sample not drawn by laboratory.

IS 10500:2012 (Amendment No. 2, Sep 2018)

Reference to protocol

TABLE 1. ORGANOLEPTIC AND PHYSICAL PARAMETERS

1 Description	Turbid liquid having sediments & suspended particles				
2 Colour (Hazen unit)	6	5.0 Max.	-	15.0Max	IS 3025(P-4):1983
3 Odour	Disagreeable	Agreeable	-	Agreeable	IS 3025(P-5):1983
4 pH Value	4.90	6.5-8.5	-	-	IS 3025(P-11):1983
5 Turbidity (NTU)	60.4	1 Max.	-	5.0Max	IS 3025(P-10):1984
6 Total Dissolved Solids (mg/L)	585.0	500 Max.	-	2000.0Max	IS 3025(P-16):1984

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/L)

7 Aluminum (as Al)	0.177	0.03 Max.	0.0020	0.20Max	IS 3025(P-65):2014
8 Barium (as Ba)	0.083	0.7 Max.	0.0020	-	IS 3025(P-65):2014
9 Boron	0.081	0.5 Max.	0.0020	2.40Max	IS 3025(P-65):2014
10 Calcium (as Ca)	74.31	75 Max.	1.0	200.0Max	IS 3025(P-40):2014
11 Chloride (as Cl)	150.91	250 Max.	1.0	1000.0Max	IS 3025(P-32):1988
12 Copper (as Cu)	0.004	0.05 Max.	0.0020	1.50Max	IS 3025(P-65):2014
13 Iron (as Fe)	0.239	1.0 Max.	0.0020	-	IS 3025(P-65):2014
14 Magnesium (as Mg)	22.57	30 Max.	1.0	100.0Max	IS 3025(P-46):1994
15 Manganese (as Mn)	0.303	0.1 Max.	0.0020	0.30Max	IS 3025(P-65):2014
16 Nitrate (as NO3)	36.08	45 Max.	1.0	-	IS 3025(P-34):1988
17 Selenium (as Se)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65):2014
18 Silver (as Ag)	Below detection limit	0.1 Max.	0.0020	-	IS 3025(P-65):2014
19 Sulphate (as SO4)	175.56	200 Max.	1.0	400.0Max	IS 3025(P-24):1986

Page 1 of 2

Date : Friday, Oct. 04, 2019

Authorized Signatory

Unit 1 : 40, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45889559
Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

Dr. Rahamath

334



Sample : DRINKING WATER
 Mfg. By : NS
 Supplied By : NS
 Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
 Address : PLOT NO-2019, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT. GHAZIABAD, UTTAR PRADESH
 Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 1 Ltr
 DW0826201908

Recd. On : 26/09/2019
 Mfg lic. No. : NS
 Ref. No. : NS, DATE : 26/09/2019

<Test>	<Results>	<Acceptable Limit>	<LLOC>	<Permissible Limit>	<Method>
20 Total Alkalinity (as CaCO3)	30.75	200Max.	1.0	600.0Max	IS 3025(P-23)1986
21 Total Hardness (as CaCO3)	278.1	200 Max.	1.0	600.0Max	IS 3025 (P-21) 2014
22 Zinc (as Zn)	0.042	5 Max.	0.0020	15.0Max	IS 3025(P-65) 2014
TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)					
23 Cadmium (as Cd)	Below detection limit	0.003 Max.	0.0020	-	IS 3025(P-65) 2014
24 * Lead (as Pb)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65) 2014
25 Mercury (as Hg)	Below detection limit	0.001 Max.	0.00080	-	IS 3025(P-65) 2014
26 Molybdenum (as Mo)	0.004	0.07 Max.	0.0020	-	IS 3025(P-65) 2014
27 Nickel (as Ni)	Below detection limit	0.02 Max.	0.0020	-	IS 3025(P-65) 2014
28 Arsenic (as As)	0.003	0.01 Max.	0.0020	-	IS 3025(P-65) 2014
29 Total Chromium (as Cr)	Below detection limit	0.05 Max.	0.0020	-	IS 3025(P-65) 2014

Note : The test marked with * are not accredited by NABL
 Taste : This test is not conducted as the sample is failing in other parameters.

[Signature]
 Authorized Signatory



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 PHARMACEUTICALS PRIVATE LIMITED
 (ANALYTICAL DIVISION)
 ISO 9001 : 2015 Certified
Govt. Approved Test House



CERTIFICATE OF ANALYSIS

Report No.: 201909280294

TC-7376

Sample : DRINKING WATER
 Mfg. By : NS
 Supplied By : NS
 Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
 Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
 Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 10X1 Ltr
 OW/09262019/08

<Test> <Results> <Acceptable Limit> <LLOQ> <Permissible Limit> <Method>

Date of start of analysis 28/09/2019 Date of completion of analysis 03/10/2019

Sample not drawn by laboratory.

reference to protocol :- IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

1 Ammonia (Total NH ₃ -N)	0.57	0.1 Max.	0.1	-	IS:3025, P-34 1988
2 Anionic Detergents (as MBAS)	7.85	0.2 Max.	0.050	1.0Max	ANX-K, IS:13428-2005
3 Chloramine (as Cl ₂)	Below detection limit	4.0 Max.	0.050	-	IS:3025, P-26 (1986)
4 Fluoride (as F)	Less than 1	1.0 Max.	0.050	1.50Max	IS:3025(P-60)2008
5 Residual Free Chlorine	Below detection limit	0.2 Min.	0.050	1.0Max	IS:3025(P-26)1986
6 Mineral oil	Below detection limit	0.5 Max.	0.1	-	IS:3025(P-39)1991, CL-6
7 Phenolic Compounds (as C ₆ H ₅ OH)	0.006	0.001 Max.	0.0010	0.0020Max	IS:3025(P-43)1992, CL-6
8 Sulphide(as H ₂ S)	Below detection limit	0.05 Max.	0.030	-	IS:3025(P-29)1986

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

9 Cyanide (as CN)	Below detection limit	0.05 Max.	0.020	-	IS:3025(P-27)1986
10 Polychlorinated biphenyls (PCB)	Below Detection Limit	0.0005 Max.	0.000050	-	APHA 23rd Edn. 6630
11 Polynuclear aromatic hydrocarbons (PAH)	Below Detection Limit	0.0001 Max.	0.000050	-	APHA 23rd Edn. 6440
TRICHALOMETHANES(mg/L):					
12 (a) Bromoform	Below detection limit	0.1 Max.	0.050	-	APHA 6232
13 (b) Dibromochloromethane	Below detection limit	0.1 Max.	0.050	-	APHA 6232
14 (c) Bromodichloromethane	Below detection limit	0.06 Max.	0.050	-	APHA 6232
15 (d) Chloroform	Below detection limit	0.2 Max.	0.050	-	APHA 6232

TABLE 5 : PESTICIDE RESIDUES (µg/l)

Page 1 of 2

Date : Thursday, Oct 03, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45895067
 Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

*Terms & Conditions Overleaf

Dr. Rahamath, SK



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(ANALYTICAL DIVISION)
ISO 9001 : 2015 Certified



Govt. Approved Test House

CERTIFICATE OF ANALYSIS

Report No. : 201909280294

TC-7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010
Mfg. Date : NS
Expiry Date : NS
Batch Size : NS
Sample Quantity : 10X1 Lit

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
16 Alachlor	Below Detection Limit	20 Max.	0.050	-	USEPA 525.2
17 Atrazine	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
18 Aldrin & Dieldrin	Below Detection Limit	0.03 Max.	0.0050	-	USEPA 508
19 Alpha-HCH	Below Detection Limit	0.01 Max.	0.0050	-	USEPA 508
20 Beta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
21 Butachlor	Below Detection Limit	125 Max.	0.050	-	USEPA 8141A
22 Chlorpyrifos	Below Detection Limit	30 Max.	0.050	-	USEPA 8141A
23 Delta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
24 2,4-D	Below detection limit.	30 Max.	0.050	-	EPA 515.3
25 DDT (O, P & P, P isomers of DDT, DDE & DDD)	Below Detection Limit	1 Max.	0.050	-	USEPA 508
26 Endosulfan (Alpha, Beta & Sulphate)	Below Detection Limit	0.4 Max.	0.0050	-	USEPA-508
27 Ethion	Below Detection Limit	3 Max.	0.050	-	USEPA 1657 A
28 Gamma-HCH (Lindane)	Below Detection Limit	2 Max.	0.0050	-	USEPA 508
29 Isoproturon	Below detection limit.	9 Max.	0.050	-	USEPA 532
30 Malathion	Below Detection Limit	190 Max.	0.050	-	USEPA 8141A
31 Methyl Parathion	Below Detection Limit	0.3 Max.	0.050	-	USEPA 8141A
32 Monocrotophos	Below Detection Limit	1 Max.	0.050	-	USEPA 8141A
33 Phorate	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
34 Total Pesticide Residue	Below Detection Limit	-	-	-	By Calculation

BACTERIOLOGICAL TESTS

35 * Escherichia coli /100 ml.	Present	Not detectable	-	-	IS 15185-2016
36 * Coliform /100ml.	Present	Not detectable	-	-	IS 15185-2016

The above sample does not comply w.r.t. Coliform & Escherichia coli.
Note : The test marked with * are not accredited by NABL.

Page 2 of 2

Date : Thursday, Oct 03, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45884507 37519100030153P

Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

*Terms & Conditions Overleaf

Dr. Rahamath. SK



Certificate No.: TC-8168



Test Report

Report No.: M1920040742	URL No.: TC596019000052118F	Date of Report: 14/10/2019
Customer Detail		
Name of Customer	Bureau of Indian Standards, Central Laboratory	
Address	Plot No. 20/9, Site IV, Sahibabad Industrial Area, Sahibabad, Ghaziabad, Uttar Pradesh	
Contact Person	Sachin Chandra Singh	
Pin Code	201001	
Sample(s) Drawn by The Laboratory	No	
Sample Details		
Sample Name	Drinking Water	
Nature	Liquid	Ref: DW/09271019/09
Qty	20L X 5Ltr	Sealed: Yes
Packing	PET Jar	
Laboratory Analysis Data		
Testing performed at	Permanent Facility	Date of sample Receipt: 09/10/2019
Date of Starting Analysis	10/10/2019	Date of Completion: 14/10/2019

Deviation in Environmental condition which may affect the result or required for interpretation of result: No

Biological Testing

Water

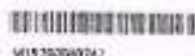
Parameter	Method	Result	LOQ	Specification	Unit	Deviation/ addition/ exclusion from method
TSI Image	UPPAA method 1602	Absent		Absent	N	No
Gerba	ISO 15553 - 7506	Absent		Absent	/10 L	No
Cryptosporidium	ISO 15553 - 2206	Absent		Absent	/10 L	No

Remarks: The tested sample complies to IS 10500 - 2012 specification for the above tests conducted.

END

07-02-2020

[Signature]
P001USR322141019133749
Authorized Signatory
Sunita Reddy
HOD-Microbiology



M1920040742

Page 1 of 2

Microchem SBIKer Pvt. Ltd., Microchem House, A-513, TTC Industrial Area, MIDC, Mahape, Navi Mumbai 400701, India
Tel: +91-22-38469700, Fax: +91-22-38469701, Email: customercare@microchem.com
QR: U24233MH2007PTC170536 - GST: 27AFCM5855P220 - PAN: AAFCM5855P - TAN: MUMM42682B



Certificate No.: TC-5440



Test Report

Report No.: M19200040742	ULR No.: TCS96019000052318F	Date of Report: 14/10/2019
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Note:

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4. Laboratory is not responsible for the authenticity of photocopied test report.
5. The test items will not be retained for perishable products and will be retained for 1 month in case of non-perishable samples unless otherwise agreed with the customer or as required by the applicable regulation.
6. The tests marked with (*) are not accredited by NABL.
7. The tests marked with (R) are OutSource.
8. The Report no. with suffix R - Revised Report.
9. This is a computer generated document with electronic signature hence does not require manual Signature.
10. The Statement of compliance is based on a 95% coverage probability for the expanded uncertainty.
11. The information pertaining to sample tested have been provided by client.
12. To confirm the authenticity of this certificate of analysis, please contact us through <http://bit.ly/writeranopro> or email us the scanned copy of the certificate at qa@merieux.com.

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M19200040742

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Microchem S88ker Pvt. Ltd, Microchem House, A-515, TTC Industrial Area, MIDC, Mahape, Navi Mumbai-401701, India
Tel: +91-22-29465700, Fax: +91-22-29469701 • Email: customerscare.in@merieux.com
• CN: U34333MH3207PTC170634 • GST: 27AFCM6865P120 • PAN: AAFCM6865P • TAN: MUMMA2692B



Govt. Approved Test House

CERTIFICATE OF ANALYSIS

Report No. : 201903260129

TC-7375

Sample : DRINKING WATER
 Mfg. By : NS
 Supplied By : NS
 Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
 Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH
 Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 1 Ltr

<Test> <Results> <Acceptable Limit> <LLOQ> <Permissible Limit> <Method>
 Date of start of analysis : 26/09/2019 Date of completion of analysis : 04/10/2019

Sample not drawn by laboratory.

Reference to protocol :- IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 1. ORGANOLEPTIC AND PHYSICAL PARAMETERS

1 Description	Turbid liquid having sediments & suspended particles				
2 Colour (Hazen unit)	Less than 1	5.0 Max.	-	15.0Max	IS:3025(P-4)-1983
3 * Odour	Disagreeable	Agreeable	-	Agreeable	IS 3025(P-5)-1983
4 pH Value	5.28	6.5-8.5	-	-	IS-3025(P-11)-1983
5 Turbidity (NTU)	69.8	1 Max.	-	5.0Max	IS:3025(P-10)-1984
6 Total Dissolved Solids mg/L	337.0	500 Max.	-	2000.0Max	IS:3025(P-16)-1984

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

7 Aluminium (as Al)	0.113	0.03 Max.	0.0020	0.20Max	IS 3025(P-65):2014
8 Barium (as Ba)	0.028	0.7 Max.	0.0020	-	IS 3025(P-65):2014
9 Boron	0.041	0.5 Max.	0.0020	2.40Max	IS 3025(P-65):2014
10 Calcium (as Ca)	59.86	75 Max.	1.0	200.0Max	IS 3025(P-40):2014
11 Chloride (as Cl)	57.91	250 Max.	1.0	1000.0Max	IS:3025(P-32)1988
12 Copper (as Cu)	Below detection limit	0.05 Max.	0.0020	1.50Max	IS 3025(P-65):2014
13 Iron (as Fe)	1.980	1.0 Max.	0.0020	-	IS 3025(P-65):2014
14 Magnesium (as Mg)	10.03	30 Max.	1.0	100.0Max	IS 3025 (P-46):1994
15 Manganese (as Mn)	0.126	0.1 Max.	0.0020	0.30Max	IS 3025(P-65):2014
16 Nitrate (as NO3)	31.48	45 Max.	1.0	-	IS:3025(P-34)1988
17 Selenium (as Se)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65):2014
18 Silver (as Ag)	Below detection limit	0.1 Max.	0.0020	-	IS 3025(P-65):2014
19 Sulphate (as SO4)	74.39	200 Max.	1.0	400.0Max	IS:3025(P-24)1986

Page 1 of 2

Date : Friday, Oct. 04, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45754569

Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

*Terms & Conditions Overleaf

Dr. Rahamath. S



Govt. Approved Test House
CERTIFICATE OF ANALYSIS

Report No.: 201909260129

TC-7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-2019, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH
Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 1 Ltr
DW/09262019/09

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
20 Total Alkalinity (as CaCO ₃)	15.38	200Max.	1.0	600.0Max	IS:3025(P-23):1986
21 Total Hardness (as CaCO ₃)	190.55	200 Max.	1.0	600.0Max	IS:3025 (P-21) 2014
22 Zinc (as Zn)	0.055	5 Max.	0.0020	15.0Max	IS 3025(P-65):2014

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

23 Cadmium (as Cd)	Below detection limit	0.003 Max.	0.0020	-	IS 3025(P-65):2014
24 * Lead (as Pb)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65):2014
25 Mercury (as Hg)	Below detection limit	0.001 Max.	0.00030	-	IS 3025(P-65):2014
26 Molybdenum (as Mo)	Below detection limit	0.07 Max.	0.0020	-	IS 3025(P-65):2014
27 Nickel (as Ni)	Below detection limit	0.02 Max.	0.0020	-	IS 3025(P-65):2014
28 Arsenic (as As)	0.003	0.01 Max.	0.0020	-	IS 3025(P-65):2014
29 Total Chromium (as Cr)	Below detection limit	0.05 Max.	0.0020	-	IS 3025(P-65):2014

Note : The test marked with * are not accredited by NABL.

Taste : This test is not conducted as the sample is failing in other parameters.

Page 2 of 2

Date : Friday, Oct. 04, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45851501
Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

Dr. Rashmi



Govt. Approved Test House

CERTIFICATE OF ANALYSIS Report No.: 201909280293



Sample : DRINKING WATER
 Mfg. By : NS
 Supplied By : NS
 Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
 Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
 Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 10X1 Ltr
 DWIOS27201909

Recd. On : 28/09/2019
 Mfg Lic. No. : NS
 Ref. No. : NS

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	28/09/2019	Date of completion of analysis	03/10/2019		
Sample not drawn by laboratory.					
Reference to protocol :- IS 10500:2012 (Amendment No. 2, Sep 2018)					
TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)					
1 Ammonia (Total NH ₃ -N)	0.40	0.1 Max.	0.1	-	IS:3025, P-34 1988
2 Anionic Detergents (as MBAS)	0.00	0.2 Max.	0.050	1.0Max	ANX-K, IS:13428-2005
3 Chloramine (as Cl ₂)	Below detection limit	4.0 Max.	0.050	-	IS:3025, P-26 (1988)
4 Fluoride (as F)	Less than 1	1.0 Max.	0.050	1.50Max	IS:3025(P-60)2008
5 Residual Free Chlorine	Below detection limit	0.2 Min.	0.050	1.0Max	IS:3025(P-26)1986
6 Mineral oil	Below detection limit	0.5 Max.	0.1	-	IS:3025(P-39)1991, CL-6
7 Phenolic Compounds (as C ₆ H ₅ OH)	0.03	0.001 Max.	0.0010	0.0020Max	IS:3025(P-43)1992, CL-6
8 Sulphide(as H ₂ S)	Below detection limit	0.05 Max.	0.030	-	IS:3025(P-29)1986

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

9 Cyanide (as CN)	Below detection limit	0.05 Max.	0.020	-	IS:3025(P-27)1988
10 Polychlorinated biphenyls (PCB)	Below Detection Limit	0.0005 Max.	0.000050	-	APHA 23rd Edn. 6630
11 Polynuclear aromatic hydrocarbons (PAH)	Below Detection Limit	0.0001 Max.	0.000050	-	APHA 23rd Edn. 8440
TRICHALOMETHANES(mg/L):					
12 (a) Bromoform	Below detection limit	0.1 Max.	0.050	-	APHA 6232
13 (b) Dibromochloromethane	Below detection limit	0.1 Max.	0.050	-	APHA 6232
14 (c) Bromodichloromethane	Below detection limit	0.05 Max.	0.050	-	APHA 6232
15 (d) Chloroform	Below detection limit	0.2 Max.	0.050	-	APHA 6232

TABLE 5 : PESTICIDE RESIDUES (µg/l)

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CERTIFICATE OF ANALYSIS

Report No. : 201909280293



TC-7378

Sample : DRINKING WATER
 Mfg. By : NS
 Supplied By : NS
 Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
 Address : PLOT NO-205, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH-201010
 Batch No : DW/06272019/09
 Mfg. Date : NS
 Expiry Date : NS
 Batch Size : NS
 Sample Quantity : 10X1 Ltr

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
16 Alachlor	Below Detection Limit	20 Max.	0.050	-	USEPA 525.2
17 Atrazine	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
18 Aldrin & Dieldrin	Below Detection Limit	0.03 Max.	0.0050	-	USEPA 508
19 Alpha-HCH	Below Detection Limit	0.01 Max.	0.0050	-	USEPA 508
20 Beta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
21 Butachlor	Below Detection Limit	125 Max.	0.050	-	USEPA 8141A
22 Chlorpyrifos	Below Detection Limit	30 Max.	0.050	-	USEPA 8141A
23 Delta-HCH	Below Detection Limit	0.04 Max.	0.0050	-	USEPA 508
24 2,4-D	Below detection limit.	50 Max.	0.050	-	EPA 515.3
25 DDT (O, P & P Isomers of DDT, DDE & DDD)	Below Detection Limit	1 Max.	0.050	-	USEPA 508
26 Endosulfan (Alpha, Beta & Sulphate)	Below Detection Limit	0.4 Max.	0.0050	-	USEPA-508
27 Ethion	Below Detection Limit	3 Max.	0.050	-	USEPA 1657 A
28 Gamma-HCH (Lindane)	Below Detection Limit	2 Max.	0.0050	-	USEPA 508
29 Isoproturon	Below detection limit.	9 Max.	0.050	-	USEPA 532
30 Malathion	Below Detection Limit	190 Max.	0.050	-	USEPA 8141A
31 Methyl Parathion	Below Detection Limit	0.3 Max.	0.050	-	USEPA 8141A
32 Monocrotophos	Below Detection Limit	1 Max.	0.050	-	USEPA 8141A
33 Phorate	Below Detection Limit	2 Max.	0.050	-	USEPA 8141A
34 Total Pesticide Residue	Below Detection Limit	-	-	-	By Calculation

BACTERIOLOGICAL TESTS

35 * Escherichia coli /100 ml.	Present	Not detectable	-	-	IS:15185-2016
36 * Coliform /100ml.	Present	Not detectable	-	-	IS:15185-2016

The above sample does not comply w.r.t. Coliform & Escherichia coli.
 Note: The test marked with * are not accredited by NABL.

Page 2 of 2

Date : Thursday, Oct 03, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-43754575, Fax : +91-11-43754575

Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

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Dr. Rahamath.



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Govt. Approved Test House

CERTIFICATE OF ANALYSIS

Report No. : 201909260128

TC-7376

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT. GHAZIABAD, UTTAR PRADESH.
Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 1 Ltr
DW/00262019/10

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	26/09/2019				
					Date of completion of analysis 04/10/2019

Sample not drawn by laboratory.

Reference to protocol : IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 1. ORGANOLEPTIC AND PHYSICAL PARAMETERS

1 Description	Yellow turbid liquid having sediments & suspended particles				
2 Colour (Hazen unit)	60.0	5.0 Max.	-	15.0 Max	IS: 3025(P-4)-1983
3 Odour	Disagreeable	Agreeable	-	Agreeable	IS: 3025(P-5)-1983
4 pH Value	5.36	0.5-8.5	-	-	IS: 3025(P-11)-1983
5 Total Dissolved Solids, mg/L	186.0	500 Max.	-	2000.0 Max	IS: 3025(P-18)-1984
6 Turbidity (NTU)	24.8	1 Max.	-	5.0 Max	IS: 3025(P-10)-1984

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/L)

7 Aluminium (as Al)	0.262	0.03 Max.	0.0020	0.20 Max	IS: 3025(P-65)-2014
8 Barium (as Ba)	0.033	0.7 Max.	0.0020	-	IS: 3025(P-65)-2014
9 Boron,	0.005	0.5 Max.	0.0020	2.40 Max.	IS: 3025(P-65)-2014
10 Calcium (as Ca)	35.50	75 Max.	1.0	200.0 Max	IS: 3025(P-40)-2014
11 Chloride (as Cl)	32.29	250 Max.	1.0	1000.0 Max	IS: 3025(P-32)-1988
12 Copper (as Cu)	0.007	0.05 Max.	0.0020	1.50 Max	IS: 3025(P-65)-2014
13 Iron (as Fe)	0.849	1.0 Max.	0.0020	-	IS: 3025(P-65)-2014
14 Magnesium (as Mg)	5.02	30 Max.	1.0	100.0 Max	IS: 3025(P-46)-1994
15 Manganese (as Mn)	0.129	0.1 Max.	0.0020	0.30 Max	IS: 3025(P-65)-2014
16 Nitrate (as NO3)	26.80	45 Max.	1.0	-	IS: 3025(P-34)-1988
17 Selenium (as Se)	Below detection limit	0.01 Max.	0.0020	-	IS: 3025(P-65)-2014
18 Silver (as Ag)	Below detection limit	0.1 Max.	0.0020	-	IS: 3025(P-65)-2014
19 Sulphate (as SO4)	54.09	200 Max.	1.0	400.0 Max	IS: 3025(P-24)-1986
20 Total Alkalinity (as CaCO3)	14.35	200 Max.	1.0	600.0 Max	IS: 3025(P-23)-1986
21 Total Hardness (as CaCO3)	109.18	200 Max.	1.0	600.0 Max	IS: 3025(P-21)-2014
22 Zinc (as Zn)	0.135	5 Max.	0.0020	15.0 Max	IS: 3025(P-65)-2014

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

23 Cadmium (as Cd)	Below detection limit	0.003 Max.	0.0020		IS: 3025(P-65)-2014
--------------------	-----------------------	------------	--------	--	---------------------

Page 1 of 2

Date : Friday, Oct. 04, 2019

Authorized Signatory

Unit I : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45754575
Email : arbropharma@arbropharma.com, Website : www.arbropharmaindia.com
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Dr. Rahamath. S

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CERTIFICATE OF ANALYSIS



Report No. : 201909260128



TC-7375

Sample : DRINKING WATER

Mfg. By : NS

Supplied By : NS

Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)

Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH

Batch No : 201010 Mfg. Date : NS

Expiry Date : NS

Batch Size : NS

Sample Quantity : 1 Ltr

Recd. On : 26/09/2019

Mfg lic. No. : NS

Ref. No. : NS, DATE : 26/09/2019

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
24 * Lead (as Pb)	0.003	0.01 Max.	0.0020	-	IS 3025(P-65):2014
25 Mercury (as Hg)	Below detection limit	0.001 Max.	0.00080	-	IS 3025(P-65):2014
26 Molybdenum (as Mo)	Below detection limit	0.07 Max.	0.0020	-	IS 3025(P-65):2014
27 Nickel (as Ni)	Below detection limit	0.02 Max.	0.0020	-	IS 3025(P-65):2014
28 Arsenic (as As)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65):2014
29 Total Chromium (as Cr)	0.004	0.05 Max.	0.0020	-	IS 3025(P-65):2014

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Note : The test marked with * are not accredited by NABL.

Taste :- This test is not conducted as the sample is failing in other parameters.

Page 2 of 2

Date :- Friday, Oct. 04, 2019

[Signature]
Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45874300

Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

Dr. Rahamath



Certificate No.: TC-0860



Test Report

Report No.: M19200040745	ULR No.: TC59601900052819F	Date of Report: 14/10/2019
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NOTE:

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2. In case sample is not drawn the results apply to the sample as received.
3. This test report, in full or in part, shall not be reproduced, used for any legal action, without prior written approval of laboratory
4. Laboratory is not responsible for the authenticity of photocopied test report.
5. The test items will not be retained for perishable products and will be retained for 1 month in case of non-perishable samples unless otherwise agreed with the customer or as required by the applicable regulation
6. The tests marked with (*) are not accredited by NABL.
7. The tests marked with (H) are Outsource
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10. The Statement of compliance is based on a 95% coverage probability for the expanded uncertainty
11. The information pertaining to sample tested have been provided by client.
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M19200040745

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Microchem Silliker Pvt. Ltd., Microchem House, A-513, TTC Industrial Area, MIDC, Mahape, Navi Mumbai 400701, India
Tel: +91-22-39469700 / Fax: +91-22-39469701 Email: customerscare.in@merieux.com
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CERTIFICATE OF ANALYSIS



Report No. : 201909260127



TC-7376

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010 Mfg. Date : NS
DWM09262019/11
Expiry Date : NS
Batch Size : NS
Sample Quantity : 1 Ltr

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
Date of start of analysis	26/09/2019				
					Date of completion of analysis 04/10/2019

Sample not drawn by laboratory.

Reference to protocol : IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 1. ORGANOLEPTIC AND PHYSICAL PARAMETERS

1 Description	Turbid liquid having sediments & suspended particles				
2 Colour (Hazen unit)	7	5.0 Max.	-	15.0Max	IS:3025(P-4)-1983
3 Odour	Disagreeable	Agreeable	-	Agreeable	IS 3025(P-5):1983
4 pH Value	7.17	6.5-8.5	-	-	IS:3025(P-11)-1983
5 Turbidity (NTU)	10.3	1 Max.	-	5.0Max	IS:3025(P-10)-1984
6 Total Dissolved Solids,mg/L	884.0	500 Max.	-	2000.0Max	IS:3025(P-16)-1984

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

7 Aluminium (as Al)	0.028	0.03 Max.	0.0020	0.20Max	IS 3025(P-65):2014
8 Barium (as Ba)	0.005	0.7 Max.	0.0020	-	IS 3025(P-65):2014
9 Boron,	0.006	0.5 Max.	0.0020	2.40Max	IS 3025(P-65):2014
10 Calcium (as Ca)	155.87	75 Max.	1.0	200.0Max	IS 3025(P-40):2014
11 Chloride (as Cl)	178.98	250 Max.	1.0	1000.0Max	IS:3025(P-32)1988
12 Copper (as Cu)	0.007	0.05 Max.	0.0020	1.50Max	IS 3025(P-65):2014
13 Iron (as Fe)	0.296	1.0 Max.	0.0020	-	IS 3025(P-65):2014
14 Magnesium (as Mg)	25.06	30 Max.	1.0	100.0Max	IS 3025 (P-16):1994
15 Manganese (as Mn)	0.561	0.1 Max.	0.0020	0.30Max	IS 3025(P-65):2014
16 Nitrate (as NO3)	6.73	45 Max.	1.0	-	IS:3025(P-34)1988
17 Selenium (as Se)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65):2014
18 Silver (as Ag)	Below detection limit	0.1 Max.	0.0020	-	IS 3025(P-65):2014
19 Sulphate (as SO4)	202.91	200 Max.	1.0	400.0Max	IS:3025(P-24)1986
20 Total Alkalinity (as CaCO3)	461.25	200Max.	1.0	600.0Max	IS:3025(P-23)1986
21 Total Hardness (as CaCO3)	494.4	200 Max.	1.0	600.0Max	IS:3025 (P-21) 2014

Page 1 of 2

Date : Friday, Oct. 04, 2019

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele : +91-11-45754575, Fax : +91-11-45824500

Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

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Dr. Rahamath, S



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CERTIFICATE OF ANALYSIS



Report No.: 201909260127



TC-7375

Sample : DRINKING WATER
Mfg. By : NS
Supplied By : NS
Submitted By : BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)
Address : PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.
Batch No : 201010 Mfg. Date : NS Expiry Date : NS Batch Size : NS Sample Quantity : 1 Ltr

<Test>	<Results>	<Acceptable Limit>	<LLOQ>	<Permissible Limit>	<Method>
22 Zinc (as Zn)	2.316	5 Max.	0.0020	16.0Max	IS 3025(P-65):2014

TABLE 3, PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

23 Cadmium (as Cd)	Below detection limit	0.003 Max.	0.0020	-	IS 3025(P-65):2014
24 * Lead (as Pb)	0.004	0.01 Max.	0.0020	-	IS 3025(P-65):2014
25 Mercury (as Hg)	Below detection limit	0.001 Max.	0.00080	-	IS 3025(P-65):2014
26 Molybdenum (as Mo)	0.006	0.07 Max.	0.0020	-	IS 3025(P-65):2014
27 Nickel (as Ni)	Below detection limit	0.02 Max.	0.0020	-	IS 3025(P-65):2014
28 Arsenic (as As)	Below detection limit	0.01 Max.	0.0020	-	IS 3025(P-65):2014
29 Total Chromium (as Cr)	Below detection limit	0.05 Max.	0.0020	-	IS 3025(P-65):2014

Note : The test marked with * are not accredited by NABL

Test :- This test is not conducted as the sample is failing in other parameters.

Page 2 of 2

Date :- Friday, Oct. 04, 2019

Dr. Rahamath. S

Authorized Signatory

Unit 1 : 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tels : +91-11-45754575, Fax : +91-11-45854500

Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

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Dr. Rahamath. S



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ISO 9001 : 2015 Certified

Govt. Approved Test House

CERTIFICATE OF ANALYSIS

Report No.: 201909280292



4673

Sample :	DRINKING WATER	Recd. On :	28/09/2019		
Mfg. By :	NS	Mfg Lic. No. :	NS		
Supplied By :	NS	Ref. No. :	NS		
Submitted By :	BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)				
Address :	PLOT NO-20/9, SITE IV SAHIBABAD IND. AREA SAHIBABAD DISTT., GHAZIABAD, UTTAR PRADESH.				
Batch No	201010	Mfg. Date	Expiry Date	Batch Size	Sample Qty
DW/08272019/11	NS	NS	NS	NS	10X1 Lit

<Test>	<Results>	<Acceptable Limit>	<LOQ>	<Permissible Limit>	<Method>
Date of start of analysis	28/09/2019	Date of completion of analysis	03/10/2019		

— Sample not drawn by laboratory.

Reference to protocol

:- IS 10500:2012 (Amendment No. 2, Sep 2018)

TABLE 2. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS (mg/l)

Sl. No.	Parameter	Unit	IS:3025, P-34 1988	IS:3025, P-34 1988	IS:3025, P-34 1988
1	Ammonia (Total NH ₃ -N)	17.91	0.1 Max	0.1	0.1
2	Anionic Detergents (as MBAS)	7.95	0.2 Max	0.050	1.0Max
3	Chloramine (as Cl ₂)	Below detection limit	4.0 Max	0.050	-
4	Fluoride (as F)	Less than 1	1.0 Max	0.050	1.50Max
5	Residual Free Chlorine	Below detection limit	0.2 Min	0.050	1.0Max
6	Mineral oil	Below detection limit	0.5 Max	0.1	-
7	Phenolic Compounds (as C ₆ H ₅ OH)	0.02	0.001 Max	0.0010	0.0020Max
8	Sulphide(as H ₂ S)	5.20	0.05 Max	0.030	-

TABLE 3. PARAMETERS CONCERNING TOXIC SUBSTANCES (mg/L)

9 Cyanide (as CN)	Below detection limit	0.05 Max.	0.020	-	IS-1025(P-27)1986
10 Polychlorinated biphenyl (PCB)	Below Detection Limit	0.0005 Max.	0.000050	-	APHA 23rd Edn. 6630
11 Polynuclear aromatic hydrocarbons (PAH)	Below Detection Limit	0.0001 Max.	0.000050	-	APHA 23rd Edn. 6440
TRIALOMETHANES(mg/L):					
12 (a) Bromoform	Below detection limit	0.1 Max.	0.050	-	APHA 6232
13 (b) Dibromochloromethane	Below detection limit	0.1 Max.	0.050	-	APHA 6232
14 (c) Bromodichloromethane	Below detection limit	0.06 Max.	0.050	-	APHA 6232
15 (d) Chloroform	Below detection limit	0.2 Max.	0.050	-	APHA 6232

TABLE 5 : PESTICIDE RESIDUES ($\mu\text{g/l}$)

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Authorized Signatory

Unit 1: 4/9, Kirti Nagar Industrial Area, New Delhi-15, INDIA. Tele: +91-11-43754575, Fax: +91-11-43814300, E-mail: info@india-9000.com

Email : arbrulab@arbropharma.com, Website : www.arbropharmaindia.com

Dr. Rahamath, S