

Laboratory Startech Labs Private Limited, 2nd Floor, 1-58/7, SMR Chambers
Madinaguda, Hyderabad

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7882 (in lieu of T-4161)

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Validity 22.09.2018 to 21.09.2020

Last Amended on 26.09.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	WATER			
1.	Water (Ground Water / Surface Water / Potable and domestic water)	pH @ 25°C	IS 3025 (part-11):1983 (Clause-2)	2 to13
		Electrical conductivity	4500 H+ - B (Electrometric method) APHA 23 rd Edn 2017 IS:3025 (Part-14) 1984 APHA 2510-B 23 rd Edn 2017	5 to 20000 µS/cm
		Total Dissolved Solids	IS 3025 (Part-16):1984 (Gravimetric method) 2540C-(Gravimetric method) APHA 23 rd Edn 2017	5 to 20000 mg/L
		Chloride as Cl	IS 3025 (Part-32):1988 (Clause-2)	1 to 500 mg/L
			4500 Cl-B (Argentometric method) APHA 23 rd Edn 2017	
		Total Hardness as CaCO ₃	IS 3025 (Part-21):2009 (Clause-5)	1 to 2000 mg/L
			2340 C (EDTA Titrimetric method) APHA 23 rd Edn 2017	
		Calcium Hardness (as CaCO ₃)	3500 Ca B (EDTA Titrimetric method) APHA 23 rd Edn 2017	1 to 2000 mg/L
		Magnesium Hardness (as CaCO ₃)	3500 Mg B (EDTA Titrimetric method) APHA 23 rd Edn 2017	1 to 2000 mg/L

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		Calcium as Ca	IS 3025 (Part-40):1991 (Clause-5)	1 to 5000 mg/L
			3500 Ca B (EDTA Titrimetric method) APHA 23 rd Edn 2017	
		Magnesium as Mg	3500 Mg B APHA 23 rd Edn 2017	1 to 500 mg/L
		Total Alkalinity (as CaCO ₃)	IS 3025 (Part-23):1986 (Titration method)	1 to 1000 mg/L
			2320 B (Titration method) APHA 23 rd Edn 2017	
		Alkalinity to Phenolphthalein	2320 B APHA 23 rd Edn 2017	1 to 1000 mg/L
		Sodium as Na	IS 3025 (Part-45):1993 (Clause-5)	1 to 1000 mg/L
			3500 – Na B (Flame photometric method) APHA 23 rd Edn 2017	
		Potassium as K	IS 3025 (Part-45):1993 (Clause-5)	1 to 500 mg/l
			3500 – K B (Flame photometric method) APHA 23 rd Edn 2017	
		Iron as Fe	IS:3025 (Part-53):2003 (Clause-6)	0.1 to 10 mg/L
			3500-B (Phenanthroline method) APHA 23 rd Edn 2017	

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II. POLLUTION & ENVIRONMENT				
1.	Waste Water (STP Water / Effluent Water/ Treated Water)	pH @ 25°C	4500 H+ - B (Electrometric method) APHA 23 rd Edn 2017	1 to 14
		Total Solids (TS)	2540B APHA 23 rd Edn 2017	5 to 20000 mg/L
		Total suspended solids (TSS)	2540 D APHA 23 rd Edn 2017	5 to 10000 mg/L
		Total Dissolved Solids (TDS)	2540C APHA 23 rd Edn 2017	5 to 10000 mg/L
		Chloride as Cl	4500 Cl-B (Argentometric method) APHA 23 rd Edn 2017	1 to 10000 mg/L
		Chemical Oxygen Demand	5220 B APHA 23 rd Edn 2017	10 to 30000 mg/L
III. ATMOSHERIC POLLUTION				
1.	Ambient Air Quality	Particulate Matter PM ₁₀	IS 5182: Part-23 : 2006/ By gravimetric method	5 to 500 µg/m ³
		Particulate Matter PM _{2.5}	ST/EN/SOP 024-03 (effective :01/09/2016) (CPCB guidelines for the Measurement of Ambient Air Pollutants – Vol.1 – May, 2011)	10 to 200 µg/m ³
IV. DRUGS& PHARMACEUTICALS				
4a.	Drug Substances (Api)			
1.	Praziquantel	Particle Size distribution	MOA: QC/GTP-029/R2 Effective Date:29/08/2017 By Particle size analyser	0.02 to 2000µm

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2.	Digoxin-USP	Identification	MOA: DNPL/DGX/SPC/007 Ver No.14 by IR (USP 40 General Chapter<197>	4000cm ⁻¹ to 400cm ⁻¹
3.	Nebivolol Hcl	Palladium content	MOA: FPT/229 Ver No.08 Effective Date:16.09.2016 by ICP-OES	1 ppm to 10 ppm
4.	Praziquantel	Nickel content	MOA: PRZ/01B/STP/R5 Effective Date:31/01/2017 by AAS	2 ppm to 14 ppm
4b.	TABLETS Metformin Tablets	Assay	MOA: IP 2018, vol 2, Pg no.2548 by UV method	5.0% w/w to 110 % w/w