



Certificate of Analysis

Item Number	Product Description	Lot Number
CPB-T60040-1KG	CHEMPURE Tris Base Ultra Pure, 1 KG	155378-157252
Formula	Molecular Weight	Cas Number
C ₄ H ₁₁ NO ₃	121.1	77-86-1

QC TEST/RELEASE DATE: 11/29/2021

SUGGESTED RETEST DATE: 07/19/2024

S.No	Test	Unit	Specifications	Test Value
1	Appearance		White Crystalline Powder	passed
2	Purity (Dried Basis By GC)	%	≥ 99.9	99.9
3	Related Substances By GC	%	≤ 0.1	0.01
4	Water	%	≤ 0.2	0.12
5	Loss on Drying @ 105 °C, 3hrs	%	≤ 1.0	0.6
6	Melting Point	°C	170 - 172	170.5
7	APHA Color, 20% Aqueous solution		≤ 20	< 20
8	Insoluble Matter	%	≤ 0.005	< 0.0005
9	Heavy Metals (as Pb)	ppm	≤ 5	< 1
10	Residue on Ignition	%	≤ 0.5	0.03
11	Iron (Fe)	ppm	≤ 5	< 1
12	UV Absorbance @260nm, 10% Aqueous solution		≤ 0.03	< 0.03
13	UV Absorbance @280nm, 10% Aqueous solution		≤ 0.02	< 0.02
14	UV Absorbance @290nm, 40% solution in H ₂ O		≤ 0.20	< 0.20
15	UV Absorbance @430nm, 10% Aqueous solution		≤ 0.004	< 0.004
16	Identification A		Pass	passed
17	Identification B		Pass	passed

18	Identification C		Pass	passed
19	pH (5% in water)		10.0 - 11.5	10.8
20	Arsenic (As)	ppm	≤ 1	< 1
21	Chloride	ppm	≤ 100	< 100
22	Copper (Cu)	ppm	≤ 1	< 1
23	DNase, RNase, protease		None Detected	None Detected
24	Lead	ppm	≤ 1	< 1
25	Magnesium (Mg)	ppm	≤ 1	< 1
26	pH (1M in H ₂ O)		10.5 - 11.5	11.0
27	Residual Solvents		Conforms to USP/EP	Conforms
28	Residue on Ignition (USP)	%	≤ 0.1	0.03
29	Solubility (2M In H ₂ O)		Pass	passed

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