

Shanghai Chemex Group Ltd.

TRI-SODIUM CITRATE DIHYDRATE

Certificate of Analysis

Manufacturing Date:	Expiry Date:	Batch No:
Mar.2022	Mar.2024	S103046

NO.	ITEM	BP2011	E331	USP34	FCC7	ENTERPRIZE SPEC
1	Characters	Colorless or white crystal				
2	Identification	Pass test				
3	Acidity or Basicity	Pass test				
4	Light Transmittance	/				≥ 95%
5	Clarity and color of solution	Pass test	/	Pass test	/	Pass test
6	Assay	99.0-101.0%	≥ 99.0%	99.0-100.5%	99.0-100.5%	99.8%
7	Water	11.0-13.0%	≤ 13.5%	10.0-13.0%	10.0-13.0%	12.18%
8	Sulphate	≤ 150ppm	/	/	/	≤ 20ppm
9	Oxalate	≤ 300ppm	≤ 100ppm	/	/	≤ 20ppm
10	Calcium	/	/	/	/	≤ 20ppm
11	Heavy Metals	≤ 10ppm	≤ 5ppm	≤ 10 ppm	/	≤ 1ppm
12	Iron	/	/	/	/	≤ 5ppm
13	Chloride	≤ 50	/	/	/	≤ 5ppm

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14	Readily Carbureted Substances	Not exceeding the standard	/	/	/	$\kappa \leq 1.0$
15	Arsenic	/	$\leq 1\text{ppm}$	/	/	$\leq 0.1\text{ppm}$
16	Mercury	/	$\leq 1\text{ppm}$	/	/	$\leq 0.1\text{ppm}$
17	Lead	/	$\leq 1\text{ppm}$	/	$\leq 2\text{ppm}$	$\leq 0.5\text{ppm}$
18	Tartrate	/	/	Pass test	/	Pass test
19	Pyrogen	Pass test	/	/	/	Pass test
20	pH	/	7.5-9.0	/	/	7.6-9.0
21	Water Insoluble substances	/	/	/	/	Pass test

Tester:



hemex
Provides chemicals anytime & anywhere