



SHANDONG ENSIGN INDUSTRY CO.,LTD.

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Certificate of Analysis

Report NO.:YXITCR-20241007168-01

Product:TRISODIUM CITRATE DIHYDRATE 30-100 MESH BP/USP/FCC/E331

Molecular Formula: $C_6H_5Na_3O_7 \cdot 2H_2O$

CAS No.:6132-04-3

Batch No.:6SX2409004

Production Date:SEP.2024

Date:SEP.19,2024

Invoice No.:FTSN240913H1

Quantity:78MT

Expiry Date:SEP.2027

Item	Unit	Quality Standards	Analysis Results	Test Method
Characters	-	White or almost white, crystalline powder or granular crystals. Slightly deliquescent in moist air. Freely soluble in water, practically insoluble in ethanol	Pass	BP
Identification	-	Pass Test	Pass	ENSIGN
Appearance of solution	-	Pass Test	Pass	BP
Assay	%	99.0-100.5	99.9	ENSIGN
Water	%	11.0-13.0	12.20	BP
Readily Carbonisable Substances	%	≥ 80	89.0	BP/FCC
Acidity or Alkalinity	-	Pass Test	Pass	BP
pH (5 % aqueous solution)	-	7.5-9.0	8.5	E331
Sulfate	mg/kg	≤ 50	< 50	ENSIGN
Oxalate	mg/kg	≤ 50	< 50	ENSIGN
Chloride	mg/kg	≤ 10	< 10	ENSIGN
Iron	mg/kg	≤ 5	< 5	ENSIGN
Lead	mg/kg	≤ 0.1	0.039	ENSIGN
Arsenic	mg/kg	≤ 0.1	Not detected (< 0.010)	ENSIGN
Mercury	mg/kg	≤ 0.1	Not detected (< 0.003)	ENSIGN
Heavy Metals	mg/kg	≤ 5	< 5	ENSIGN
Tartrate	-	Pass Test	Pass	USP
Pyrogen	-	Pass Test	Pass	BP

Conclusion:The product is in conformity with BP/USP/FCC/E331/ENSIGN and other standard of customer requirements.

Approved by: [Signature]

Reviewed by: [Signature]

Prepared by: [Signature]

Analysis date:2024-09-03

Authorized signatory

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WBO