

828 – CALCIUM CITRATE (TETRAHYDRATE), EXTRA PURE

REF NO: TBL/QA/SS/LC/828	STANDARD SPECIFICATION FOR CALCIUM CITRATE (TETRAHYDRATE), EXTRA PURE	Rev. No: 03
Issue No: 04		Review Date: 08/11/2024
Issue Date: 09/11/2021		Product code: 828

PRODUCT PROPERTIES

C.A.S Number	5785-44-4
Chemical Formula	$\text{Ca}_3(\text{C}_6\text{H}_5\text{O}_7)_2 \cdot 4(\text{H}_2\text{O})$
Formula weight	570.50
Functional Uses	Calcium citrate tetrahydrate may be used as raw material in the preparation of nanoparticle with the nominal composition $\text{Ca}_{0.8} \text{Ba}_{0.2} \text{TiO}_3 : \text{Pr}^{3+}$, via sol-gel process. It may be employed as carbon source in a simple and effective carbonization method to prepare porous carbon without any activation process. It is suitable for use in the preparation of bovine serum albumin (BSA) nanoparticles.
Standard Packaging	500 gm & 25 Kg

PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	White coloured crystalline powder.

CHEMICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Chloride (Cl)	NMT – 0.005%
Sulphate (SO ₄)	NMT – 0.001%
Iron (Fe)	NMT – 0.0005%
Lead (Pb)	NMT – 0.0001%
Assay	NLT – 98.0%

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

