

828 – CALCIUM CITRATE (TETRAHYDRATE), EXTRA PURE

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| 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

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| 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.

