

PRODUCT SPECIFICATION SHEET
Calcium Stearate, USP/FCC Grade
Product Specification (CAS RN: 1592-23-0)

Test	Specification	Typical Results
Appearance	White or almost white bulky powder with a slight characteristic odor	Complies
Assay (Ca on dried basis)	6.4 to 7.4%	6.88%
Solubility	Practically insoluble in water and in 96% ethanol and in ether	Complies
Identification A: Freezing Point	NLT 53°C	55°C
Identification B: Calcium	Should comply the test	Complies
Identification C: Chromatography	The retention times of the major peaks of the Sample solution corresponds to those of the Standard solution as obtained in the Assay for Content of Stearic Acid and Palmitic Acid	Complies
Loss on Drying (LOD)	NMT 4.0%	2.15%
Impurities A: Arsenic	NMT 3 ppm	<3 ppm
Impurities B: Free fatty acids	NMT 3.0%	1.1%
Impurities C: Heavy metals	NMT 10 ppm	<10 ppm
Relative content of Stearic acid and Palmitic acid A: Stearic acid in fatty acid fraction	NLT 40%	42.36%
Relative content of Stearic acid and Palmitic acid B: Sum of Stearic and Palmitic acid	NLT 90%	98.58%

Appropriate/legal use of this product is the responsibility of the user.

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