TABRIZ PHARMA
Tabriz Chemical and Pharmaceutical Ind.

Physico-Chemical Specification Of Product

Calcium Carbonate(Semi-heavy)

Name / Internal code: Calcium carbonate (3202032)
Sampling SOP: SOP/QC -027
Precaution: SDS/PR-001
Testing SOP: SOP/QC-088, SOP/QC-089
Specification code: QC/s.h-CAC-009
Validity date: 1 years

No.	Chemical Analysis	Specifications	Reference
01	Characteristics	A white , microcrystalline powder	USP2024
02	Identification	According to USP requirements	USP2024
03	Solubility	Practically insoluble in water. Its solubility in water is increased by the presence of any ammonium salt or of carbon dioxide. The presence of any alkali hydroxide reduces its solubility. Insoluble in alcohol. Dissolves with effervescence in 1 N acetic acid, in 3 N hydrochloric acid, and in 2 N nitric acid	USP2024
04	Acid- insoluble substances	Max. 0.2%	USP2024
05	Chloride	Max. 330 ppm	BP2023
06	Sulfate	Max.0.25%	BP2023
07	Barium	According to USP& BP requirements	USP2024-BP2023
08	Arsenic	3 ppm Max.	USP2024
09	Fluoride	Max. 50 ppm	USP2024
10	Iron	200 ppm Max.	BP2023
11	Lead	Max. 3 ppm	USP2024
12	Magnesium & alkali metals	1.0 % Max.	USP2024
13	Mercury	Max. 0.5 ppm	USP2024
14	Loss on drying	2.0 % Max.	USP2024-BP2023
15	Assay	98.5%-100.5 %	BP2023

Additional test:

No.	Chemical Analysis	Specifications	Reference
01	Bulk Density	0.5-0.9 g/cm^3	In house – USP2024

Remark: Not Applicable

Packing and Storage: keep in well-closed container & dry place

QC Manager : Tehran 14.03.2024

QA Manager: Faridi 14.03.2024

QA APPROVED
By: Shafiei
Date: 14.03.2024