Creatine Monohydrate

$C_4H_9N_3O_2 \cdot H_2O$ · CAS 6020-87-7 · Creatine monohydrate, crystalline

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Creatine monohydrate, crystalline	$C_4H_9N_3O_2 \cdot H_2O$	6020-87-7	99.0–101.0% (HPLC)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Creatine monohydrate specified at 99.0–101.0% by HPLC, with creatinine and dicyandiamide limits, for sports powders, capsules and tablets where the impurity profile decides the grade.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay	99.0–101.0% (HPLC)	As stated
Appearance	White crystalline powder	As stated
Identification	IR conforms	As stated
Creatinine	≤100 ppm	As stated
Dicyandiamide	≤50 ppm	As stated
Loss on drying	≤12.0%	As stated
Residue on ignition	≤0.1%	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Mesh	80 or 200 mesh	As stated
Marker set	Creatine (99.0–101.0%), creatinine ≤100 ppm	Identity
Solubility	Soluble in water; the monohydrate is the stable crystalline form.	Matrix dependent

APPLICATIONS

- Sports powders
- Capsules and tablets
- Powder sticks and drink mixes
- Functional beverages

AVAILABLE FORMS

- 80 mesh
- 200 mesh
- Micronized on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

Catalog document. This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

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