

Calcium Alpha-Ketoglutarate Specification Sheet

Public technical specification for buyer documentation review

Source page: <https://www.naturalbestbio.com/ca-akg-98calciakg.html>

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Field	Specification / note
Ingredient name	Calcium alpha-ketoglutarate (Ca-AKG) 98%, monohydrate — CalciAKG™
Synonyms	Ca-AKG; calcium AKG; calcium 2-oxoglutarate monohydrate; calcium 2-oxopentanedioate; alpha-ketoglutaric acid calcium salt
CAS number	71686-01-6 — the CAS number carried on our specification sheet for the monohydrate
Machine-readable identifiers	InChIKey LADYPAWUSNPKJF-UHFFFAOYSA-L · PubChem CID 3018235
Molecular formula	C 5 H 4 CaO 5 · H 2 O (monohydrate) — C 5 H 4 CaO 5 on the anhydrous basis
Molecular weight	202.18 g/mol (monohydrate) · 184.16 g/mol (anhydrous basis)
Assay / purity	98% minimum, stated on the Certificate of Analysis for each lot together with the assay method.
Hydration & calcium content	Supplied as the monohydrate. Water content and elemental calcium content are stated on the Certificate of Analysis and must be used for label calculations rather than assumed.
Production route	Organic synthesis: neutralisation of alpha-ketoglutaric acid with a calcium source, followed by crystallisation and drying.
Appearance	White to off-white crystalline powder
Solubility	Slightly soluble in water; insoluble in ethanol.
Typical applications	Capsules, tablets and powder blends for B2B nutraceutical manufacturing. Servings are gram-scale, so label space and tablet weight should be checked early.
Documentation	Certificate of Analysis, specification sheet, heavy metals, microbiological testing, residual solvents, allergen statement, GMO statement, water and calcium content, particle size and stability data
Quality system	ISO 22000:2018, FSSC 22000, HACCP and GMP (certificates provided on request)
Supplier	Nutrition BioTech, 1601 W. Mission Blvd, Suite 103 (DL#29), Pomona, CA 91766, United States

Public disclosure note: This public sheet is prepared from the current NaturalBestBio product-page specification block. It is not a batch-specific Certificate of Analysis. Lot-specific COA and supporting records are available for qualified buyer review when appropriate.

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