

Quercetin Specification Sheet

Public technical specification for buyer documentation review

Source page: <https://www.naturalbestbio.com/quercetin-pd560153448.html>

Document date: 2026-08-01

Field	Specification / note
Ingredient name	Quercetin 98% — two grades supplied: anhydrous and dihydrate
Synonyms	Quercetin; 3,3',4',5,7-pentahydroxyflavone; quercetol; meletin; sophoretin; quercetin dihydrate
CAS number	117-39-5 (anhydrous); 6151-25-3 (dihydrate)
Machine-readable identifiers	CAS 117-39-5 — InChIKey REFJWTPEDVJJY-UHFFFAOYSA-N · PubChem CID 5280343 CAS 6151-25-3 — InChIKey GMGIWEZSKCNYSW-UHFFFAOYSA-N · PubChem CID 5284452
Molecular formula	C 15 H 10 O 7 (anhydrous); C 15 H 10 O 7 · 2H 2 O (dihydrate)
Molecular weight	302.24 g/mol (anhydrous); 338.27 g/mol (dihydrate)
Assay / purity	98% minimum by HPLC for both grades, each calculated on its own basis (anhydrous or dihydrate) and stated on the Certificate of Analysis for each lot.
Hydrate form and assay basis	Both grades are supplied as separate specifications and the grade is fixed per order. The dihydrate carries two molecules of water per molecule of quercetin, so at the same 98% assay an equal weight of dihydrate delivers roughly 10.7% less quercetin than the anhydrous grade. The two are therefore not interchangeable weight for weight, and the grade should be fixed before label claims, overage and cost-in-use are calculated.
Source / production route	Produced from rutin of Sophora japonica (Japanese pagoda tree) flower bud origin by hydrolysis and purification. Botanical origin and solvent set are stated on the specification sheet.
Appearance	Yellow to greenish-yellow crystalline powder
Solubility	Practically insoluble in water; soluble in ethanol, DMSO and dilute alkali. Wetting behaviour and particle size should be confirmed for the intended dosage form.
Delivery format options	Standard 98% powder, micronised powder and solubility-enhanced formats (phytosome, liposomal or solid dispersion) are written as separate specifications with their own assay basis, and are not interchangeable on a weight-for-weight basis.
Typical applications	Capsules, tablets, sachets and powder blends for B2B nutraceutical manufacturing; commonly formulated alongside zinc, vitamin C, bromelain and fisetin
Documentation	Certificate of Analysis, specification sheet, botanical identity, heavy metals, microbiological testing, residual solvents, pesticide residues, allergen statement, GMO statement, particle size data 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.

Nutrition BioTech | [naturalbestbio.com](https://www.naturalbestbio.com) | sales@naturalbestbio.com