

Green Tea Extract Specification Sheet

Public technical specification for buyer documentation review

Source page: <https://www.naturalbestbio.com/green-tea-extract.html>

Document date: 2026-08-01

Field	Specification / note
Ingredient name	Green tea extract (Camellia sinensis leaf extract)
Synonyms	Camellia sinensis leaf extract; green tea polyphenols; tea catechins; EGCG extract
CAS number	84650-60-2 (Camellia sinensis leaf extract). Principal marker epigallocatechin gallate (EGCG), CAS 989-51-5.
Molecular formula	Not applicable to the extract, which is a multi-component botanical material. EGCG marker: C 22 H 18 O 11
Molecular weight	Not applicable to the extract. EGCG marker: 458.37
Assay / purity	Standardised to the agreed total catechin or EGCG percentage by HPLC; low-caffeine and decaffeinated grades available. Exact grade, marker, method and caffeine limit are specified per order. Grade options available on request.
Source / production route	Leaf of Camellia sinensis; water or water-ethanol extraction, concentration, purification and drying. Extraction solvent, plant part, extract ratio and any carrier are stated on the specification sheet.
Appearance	Off-white to light brown or greenish-brown fine powder; colour varies with catechin grade and decaffeination route
Solubility	Soluble to dispersible in water and in ethanol-water depending on grade; high-catechin grades are hygroscopic. Confirm dissolution, taste masking and behaviour in the intended matrix before formula lock.
Caffeine declaration	Caffeine content is measured and stated on every Certificate of Analysis, and low-caffeine or decaffeinated grades can be specified per order
Stability and storage	Catechins are sensitive to heat, moisture, alkaline pH, light and oxygen. Store cool and dry in tightly closed, light-protected containers; confirm stability data for the intended format, particularly for beverages and liquid systems.
Typical applications	Capsules, tablets, beverage and stick powders, and polyphenol or metabolic blends for B2B nutraceutical manufacturing; also used in topical and cosmetic formats
Regulatory note	Catechin, EGCG and caffeine contents are declared per lot so that buyers can meet the labelling and dosage requirements that apply to green tea catechin products in the destination market; confirming those requirements is the buyer's responsibility before launch
Documentation	Certificate of Analysis, specification sheet, botanical identity, heavy metals, microbiological testing, residual solvents, pesticide residues, caffeine content, 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.

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