

Green Tea EGCG

EGCG is a defined catechin associated with green tea. Compare an EGCG-focused grade with broader tea extracts by marker assay, total composition and stability requirements for the proposed topical system.

Material identity

Ingredient identity	Epigallocatechin Gallate
CAS reference	989-51-5
Catalog appearance	White to pale pink powder

Catalog technical specifications

The following are published catalog reference specifications, not analytical results for a supplied lot. Confirm the current specification, method and batch COA before approval.

EGCG (HPLC)	>= 98.0%
Total catechins	Reported per lot
Moisture	<= 4.0%
Caffeine	<= 0.5%
Heavy metals (Pb)	<= 10 ppm
Total plate count	<= 100 CFU/g
Shelf life	24 months, N2-flushed

Selection and qualification

What to check for this grade

01. Confirm whether the material is a defined EGCG grade or an extract standardized to an EGCG marker.
02. Review caffeine, moisture, microbial quality and the assay method appropriate to the supplied grade.
03. Evaluate pH, processing, oxidation and color development in the complete formula and packaging.

High-EGCG grade vs Broad green tea extract

A high marker assay does not describe all extract constituents. Match the composition and intended application to the brief.

Can two green tea extracts be substituted by name alone?

No. Compare plant identity, marker definition, assay method, carrier and relevant impurities. Requalify formulation performance when the grade or composition changes.

Prepare the sample and purchasing brief

Provide the intended formula format, destination market, trial quantity and acceptance criteria. Request the current COA, SDS and TDS, full composition, and relevant storage and handling instructions. Confirm pricing, order minimum, stock, packaging and delivery terms for the actual order.

Catalog handling reference

Packaging	5kg foil bag, N2, dark
Storage	<= 20°C
Shelf life	24 months, N2-flushed

Product details and current enquiry options

[Cosmetic raw material buying guide](#)

[Contact RAWESS about this grade](#)

For ingredient evaluation in cosmetic development. This guide is not a batch COA or a finished-product safety, efficacy or regulatory approval. Trade-name comparisons do not establish branded origin.