

Trans-Resveratrol Specification Sheet

Public technical specification for buyer documentation review

Source page: <https://www.naturalbestbio.com/resveratrolvineguard.html>

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Field	Specification / note
Ingredient name	Trans-Resveratrol 98% — VineGuard™ (fermentation-derived)
Synonyms	trans-Resveratrol; (E)-resveratrol; 3,5,4'-trihydroxy-trans-stilbene; 3,4',5-stilbenetriol
CAS number	501-36-0 (trans-resveratrol). The cis isomer carries a separate number, 61434-67-1; our specifications are written against the trans isomer.
Machine-readable identifiers	CAS 501-36-0 — InChIKey LUKBXS AWLPMSZ-OWOJBTEDSA-N · PubChem CID 445154 CAS 61434-67-1 — InChIKey LUKBXS AWLPMSZ-UPHRSURJSA-N · PubChem CID 1548910
Molecular formula	C 14 H 12 O 3
Molecular weight	228.24 g/mol
Assay / purity	98% minimum trans-resveratrol by HPLC, with the assay basis stated on the Certificate of Analysis for each lot.
Trans versus total resveratrol	Our 98% figure is trans-resveratrol. A total-resveratrol figure on the same lot is a different number, so confirm which basis a competing quotation is written against before comparing prices or fixing label claims.
Source / production route	Produced by microbial fermentation followed by isolation and purification. This is a fermentation-derived material, not an extract of Polygonum cuspidatum (Japanese knotweed). The production organism, the fermentation process description and the declarations required in the destination market, including the GMO statement, are provided with the specification sheet.
Contaminant control (PAH)	The polycyclic aromatic hydrocarbon and emodin questions that buyers raise about Polygonum cuspidatum extracts arise from the botanical raw material, and do not apply in the same way to fermentation-derived material. Benzo[a]pyrene, the PAH4 sum and emodin can still be tested and reported per lot where a buyer specification calls for them. Residual solvents and fermentation process residues are reported on the Certificate of Analysis.
Appearance	White to off-white or light beige powder
Solubility	Practically insoluble in water; soluble in ethanol, DMSO and acetone. Wetting behaviour and particle size should be confirmed for the intended dosage form.
Stability and handling	Sensitive to light and to alkaline conditions; ultraviolet exposure drives trans-to-cis isomerisation, which lowers the trans assay. Store in tightly closed, light-protected containers. Stability data provided on request.
Typical applications	Capsules, tablets, powder blends, beverage and beauty-from-within formats for B2B nutraceutical manufacturing; commonly formulated alongside NMN and NAD precursors, pterostilbene and quercetin
Documentation	Certificate of Analysis, specification sheet, botanical or synthetic identity, heavy metals, microbiological testing, residual solvents, pesticide residues, polycyclic aromatic hydrocarbon testing, 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