

Pterostilbene Glucoside Specification Sheet

Public technical specification for buyer documentation review

Source page: <https://www.naturalbestbio.com/pterostilbene-glocosidestilbgluc.html>

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Field	Specification / note
Ingredient name	Pterostilbene Glucoside — StilbGluc™
Synonyms	Pterostilbene 4'-O-β-D-glucoside; trans -3,5-dimethoxystilbene-4'-O-β-D-glucopyranoside; pterostilbene glucoside; TDG
CAS number	38967-99-6
Machine-readable identifiers	InChIKey IGTFTNWJAADJKD-QCJVRXEMSA-N · PubChem CID 25111365
Molecular formula	C 22 H 26 O 8
Molecular weight	418.44 g/mol
Assay / purity	99% minimum by HPLC, stated on the Certificate of Analysis for each lot. Other grades available on request.
Glycoside position	Supplied as the 4'-O-β-D-glucoside. Because several glycosylation positions are chemically possible, the position and anomeric configuration of each lot are confirmed on the specification sheet and by identity testing.
Source / production route	Organic synthesis or enzymatic glycosylation of pterostilbene. The applicable route, catalyst or enzyme system and residual solvent limits are stated on the specification sheet.
Appearance	White to off-white powder
Solubility	Water solubility is higher than that of the corresponding aglycone pterostilbene; soluble in methanol, ethanol and DMSO. Dissolution and dispersion behaviour should be confirmed for the intended dosage form.
Relationship to pterostilbene	StilbGluc™ is the glucoside of pterostilbene (pterostilbene CAS 537-42-8, also supplied by Nutrition BioTech as StilbElite™). The sugar moiety adds molecular weight, so equal weights of the two materials do not supply equal pterostilbene-equivalent content. The declaration basis must be agreed before the label is locked.
Typical applications	Capsules, tablets, powder blends, stick packs and beverage formats for B2B nutraceutical manufacturing; used where a water-dispersible stilbene format is required
Documentation	Certificate of Analysis, specification sheet, identity confirmation (HPLC and spectroscopic), heavy metals, microbiological testing, residual solvents, allergen statement, GMO statement, particle size data and stability data
Regulatory note	Permitted use, notification status and labelling requirements for stilbene glycosides differ by jurisdiction. Buyers are responsible for confirming the regulatory position in each market of sale before launch.
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