

Rhodiola Rosea Extract Specification Sheet

Public technical specification for buyer documentation review

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Field	Specification / note
Ingredient name	Rhodiola Rosea Extract (standardised grades) and Salidroside 98%
Synonyms	Rhodiola rosea root extract; golden root extract; roseroot extract; arctic root extract; salidroside; rhodioloside
Grades supplied	3% rosavins / 1% salidroside by HPLC — standard commercial grade. 5% rosavins / 2% salidroside by HPLC — higher-standardisation grade. Salidroside 98% by HPLC — purified single compound, not a rosavins-standardised extract. The three grades are separate specifications and are not interchangeable on a weight-for-weight basis.
Botanical source	Rhodiola rosea L. (Crassulaceae), dried root and rhizome. Species identity is confirmed by botanical and chromatographic testing — other Rhodiola species, notably R. crenulata, have a different marker profile and are not supplied as substitutes.
CAS number	Standardised extract grades: not applicable — multi-constituent botanical extract, identified by botanical species, plant part, extraction ratio and standardisation markers rather than by a single CAS number. Marker compounds: salidroside 10338-51-9, rosavin 84954-92-7. The salidroside 98% grade is a single compound and carries CAS 10338-51-9 directly.
Molecular formula / weight	Not applicable to the standardised extract grades. Salidroside C 14 H 20 O 7 , 300.30 g/mol — this applies directly to the salidroside 98% grade. Rosavin C 20 H 28 O 10 , 428.43 g/mol.
Assay / standardisation	Rosavins and salidroside determined by HPLC and both reported per lot for the extract grades; salidroside by HPLC for the 98% grade. The calculation basis is stated on the Certificate of Analysis.
Rosavins versus salidroside	Rosavins and salidroside are separate markers and a grade standardised to one is not a substitute for a grade standardised to the other. The traditional 3:1 rosavins-to-salidroside relationship of the 3% / 1% and 5% / 2% grades reflects the native profile of R. rosea root; the salidroside 98% grade sits outside that relationship entirely.
Extraction ratio and solvent	Native drug-to-extract ratio and the solvent set — typically water and ethanol — are stated on the specification sheet for each grade.
Carrier and excipient declaration	Where a carrier such as maltodextrin is used to standardise the extract, it is declared on the specification sheet and Certificate of Analysis and must be carried through to the finished-product ingredient list.
Appearance	Standardised extract grades: pink-brown to reddish-brown fine powder with a characteristic rose-like odour. Salidroside 98%: white to off-white powder.
Solubility	Extract grades are water-dispersible to partially water-soluble and soluble in hydroalcoholic systems, depending on the extraction and carrier. Salidroside 98% is water-soluble.
Typical applications	Capsules, tablets, sachets, stick packs and powder blends for B2B nutraceutical manufacturing; commonly formulated alongside nootropic actives, magnesium and B vitamins
Documentation	Certificate of Analysis, specification sheet, botanical identity including HPLC fingerprint, heavy metals, microbiological testing, residual solvents, pesticide residues, allergen statement, GMO statement 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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