

L-5-Methyltetrahydrofolate Specification Sheet

Public technical specification for buyer documentation review

Source page: <https://www.naturalbestbio.com/l-5-methyltetrahydrofolate.html>

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Field	Specification / note
Ingredient name	L-5-Methyltetrahydrofolate (supplied as the calcium salt or the glucosamine salt)
Synonyms	L-5-MTHF; levomefolate; L-methylfolate; (6S)-5-methyltetrahydrofolic acid; calcium L-5-methyltetrahydrofolate; glucosamine L-5-methyltetrahydrofolate
CAS number	151533-22-1 (calcium L-5-methyltetrahydrofolate); 1181972-37-1 (glucosamine L-5-methyltetrahydrofolate). The free-acid CAS number depends on the stereochemical designation used, so it is stated on the specification sheet for the supplied form rather than quoted here.
Molecular formula	C 20 H 23 CaN 7 O 6 (calcium salt). The formula for the glucosamine salt is stated on the specification sheet for that form.
Molecular weight	497.5 (calcium salt, anhydrous basis; the material is commonly supplied as a hydrate, so water content is stated on the Certificate of Analysis)
Assay / purity	Assay by HPLC against the applicable monograph; salt form, assay basis and folate equivalence per milligram are specified per order and stated on the Certificate of Analysis. Grade options available on request.
Source / production route	Chemical synthesis; the (6S) form, with diastereomeric purity reported on the Certificate of Analysis
Appearance	White to light yellow, or cream to light brown, fine powder depending on salt form
Solubility	Sparingly soluble in water; solubility and dissolution behaviour depend on salt form and pH. Confirm behaviour in the intended matrix before formula lock.
Stability and storage	Sensitive to moisture, heat, light and oxidation. Store cool and dry in tightly closed, light-protected containers; overage, packaging and desiccation for the finished format should be confirmed with the specification sheet and stability data.
Low-dose handling	Typical inclusion is at microgram level per serving, so a premix or triturated dilution is normally used for content uniformity and blend assay should be confirmed on the finished blend
Typical applications	Capsules, tablets, sachets and low-dose premixes for B2B nutraceutical manufacturing; methylated-vitamin, prenatal and daily multivitamin formats
Documentation	Certificate of Analysis, specification sheet, identity and diastereomeric purity, heavy metals, microbiological testing, residual solvents, water 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.

Nutrition BioTech | [naturalbestbio.com](https://www.naturalbestbio.com) | sales@naturalbestbio.com