Nutraceuticals Group USA
8404 Sunstate Street
Tampa, FL 33634, USA
Tel: +813-461-7500
sales@nutraintlgroup.com
nutraceuticalsgroup.com

Nutraceuticals Group UK
The Old Smithy, 7 High Street, Merstham,
Surrey, RH1 3BA, UK
Tel: +44-203-696-2780
sales@nutraceuticalsgroup.com
nutraceuticalsgroup.com

Nutraceuticals Group DE
Hagener Hauptstraße 8,
21684 Stade, DE
Tel: +49 4162 7023697
sales.de@nutraceuticalsgroup.com
nutraceuticalsgroup.com

Product Master Specification

Item Name	Pine (Tall) Oil Granulated Extract 98% Phytosterols (Pinus massoniana lamb)
Product Code	**NIGEHER1357889**
Product Type	Herbal Extracts
Issue Date	**2-Nov-2026**
Version	**V01**
QA Status	Final Approved
Intended use	Food use
Test	Specification
Organoleptic	
Appearance	White or almost white granule
Odour and Taste	Characteristic
Latin Name	Pinus massoniana lamb
Assay	≥ 98.0% Total Sterols (on dry basis) ≤15.0% Beta-sitostanol ≥ 70.0% Beta-sitosterol ≤ 1.5% Stigmasterol ≤ 15.0% Campesterol ≤ 10.0% Other sterols
Irradiation	Free
GMO	Free
BSE/TSE	Free
Particle Size	≥60% through 40 mesh ≥30% through 80 mesh
Bulk Density	≥0.30g/ml
Loss on drying	≤ 2.50 %
Peroxide Value	≤10.0 meq/kg
Acid Value	≤3mg KOH/g
Residue on Ignition	≤1.00%
Heavy Metals	
Heavy Metals Total	≤ 10.00 ppm
Lead (Pb)	≤ 1.00 ppm
Arsenic (As)	≤ 1.00 ppm
Cadmium (Cd)	≤ 1.00 ppm
Mercury (Hg)	≤ 0.10 ppm
Microbiological	

Total Plate Count	≤1,000cfu/g
Yeast and Mould	≤100cfu/g
Escherichia coli (E. coli)	Not detected / g
Salmonella	Not detected / 25g
Residual Solvents	≤ 50.00 ppm
B(a)p	≤2.0ppb
Storage & Handling	
Storage	Store in a clean, cool, dry place at 5 - 25°C. Protect from humidity (RH < 60) and sunlight.
Preparation and/or handling before use or processing	Please ask our QA department for detailed instructions
Transportation	Transportation suitable for dried food powders
Packaging	All packaging meets EU regulations
Shelf Life	2 years from manufacture if stored according to conditions above
Approved by	Quality Department
Signed By	Shehara Premachandra
Disclaimer	All batches are fully in line with all requirements of the agreed specifications as standard, however not all parameters are tested per batch all of the time. Nutraceuticals Group guarantee all batches.
Template Version	NGEMNSPEC202408a
Nutritional (Typical) / 100g	
General Information	While Nutraceuticals Group strives to provide comprehensive information about all ingredients, the specific nutritional data for this product is currently not available. We recommend conducting further analysis if precise nutritional information is required for your product labelling.