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Product Master Specification

Item Name	Safflower Oil Powder 50% Microencapsulated Vegan (Carthamus tinctorius)
Product Code	NIGENUL1005167
Product Type	Nutritional Lipids
Issue Date	17-Aug-2026
Version	V01
QA Status	Final Approved
Intended use	Food use
Test	Specification
Organoleptic	
Appearance	White to almost white or yellow
Odour and Taste	Characteristic
Characteristics	
Latin Name	Carthamus tinctorius
Assay	Fat - $\geq 50.0\%$ Oleic acid - 8.4%-21.3% (in fat) Linoleic acid - 67.8%-83.2% (in fat) Linolenic acid - ND - 0.1% (in fat)
Irradiation	Free
GMO	Free
BSE/TSE	Free
Particle Size	$\geq 90\%$ through 40 mesh
Bulk Density	0.30g/mL-0.55g/mL
Loss on Drying	$\leq 5.00\%$
Heavy Metals	
Lead (Pb)	≤ 1.00 ppm
Arsenic (As)	≤ 1.00 ppm
Cadmium (Cd)	≤ 1.00 ppm
Mercury (Hg)	≤ 0.10 ppm
Microbiological	
Total Plate Count	≤ 1000 cfu/g
Yeast and Mould	≤ 100 cfu/g
Escherichia coli (E. coli)	Not detected / 10g
Salmonella	Not detected / 10g
E. sakazaki	Negative/10g

Enterobacterial	≤10cfu/g
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
General Information	Please note this is a guide only from analytical data from labs or the manufacturer of the product. Nutraceuticals accept no responsibility for any inaccuracies in the data. We strongly suggest if using this data for labelling / pack artwork you analyse your finished product to verify nutritional data.
Energy	2649kJ
Protein	50.0g
Total Carbohydrates	47.0g
Sodium	60mg