

Product Name : Bromelain 2400 GDU/ g [Ex-Ananas comosus L.] powder		
Botanical source: <i>Ananas comosus</i> (L.) MERR.		Plant part used: Fruit
CAS number: 37189-34-7; 9001-00-7		EC number: 253-387-5
Enzyme commission number: 3.4.22.32		MDL number: MFCD00081423
Standard: Corporation In-house standard		Specification ref.: R4_V1
Batch number: 25068		Manufacturing date: 01-03-2025
Expiry date: 28-02-2027		Principle ref.: BPM170
Activity: 2400 GDU/ g is equivalent to approximately 4800 FIP-units/ g. One Gelatin Digestion unit (GDU) is approximately equivalent to 15,000 FCC Papain unit (FCC PU)		
Analysis	Specification	Result
Appearance	Cream-coloured to light greyish, odourless amorphous, hygroscopic powder	Conforms
Odour	Characteristic	Conforms
Identification	A: Positive to Skimmed milk reaction B: Positive for proteolytic activity	Conforms
Solubility	Partly soluble in water, Insoluble in organic solvents	Conforms
Assay [Specific activity of bromelain]	NLT. 2400 GDU/ g [4800 FIP Units/ g]	2450.48 GDU/ g
Loss on drying	NMT 7.0% [Typically: NMT 5.0%]	5.80%
Sieve analysis	NLT 95% through 40 mesh [400 micron] NLT 80% through 60 mesh [250 micron]	100% 85.58%
Bulk density [Loose]	0.3 g/ml to 0.5 g/ml	0.48 g/ ml
Bulk density [Tapped]	0.4 g/ml to 0.7 g/ml	0.62 g/ ml
Residual pesticides [Current Ph. Eur. 2.8.13; Regulation 2008/299 EC & 396/2005/EC]	Must comply	Conforms
Residual solvents	Must comply to ICH/ Ph. Eur.	Conforms
Lead (Pb)	NMT 3 ppm	0.05 ppm
Arsenic (As)	NMT 1 ppm	0.05 ppm
Cadmium (Cd)	NMT 1 ppm	0.05 ppm
Mercury (Hg)	NMT 0.1 ppm	0.02 ppm
Total plate count [TAMC]	NMT 10,000 CFU/ g	2000 CFU/ g
Total yeast & mould count [TYMC]	NMT 100 CFU/ g	10 CFU/ g

E. Coli	Negative/ g	Conforms
Staphylococcus	Negative/ g	Conforms
Salmonella	Negative/ 25 g	Conforms

Conclusion: This product conforms to the Specification and standards mentioned above.

Storage conditions: Store at room temperature, away from heat, light and moisture.

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