

Product Name: Benfotiamine powder		
Synonym: S-Benzoylthiamine O-monophosphate		
CAS number: 22457-89-2	EC number: 245-013-4	
Chemical formula: C ₁₉ H ₂₃ N ₄ O ₆ PS	Molecular weight: 466.45 g/ mol	
Standard: Corporation in-house standard	Specification ref.: R0_V0	
Batch Number: 272401808	Manufacturing Date: 13-01-2024	
Expiry Date: 13-01-2026	Principle ref.: BPM305	
Analysis	Specification	Result
Appearance	White crystals or white crystalline powder	Conforms
Identification	The retention time of main peak is accordant with that of benfotiamine reference sample	Conforms
Appearance of solution	Colourless to light yellow clear solution	Conforms
Melting point	NLT 198°C	203-205°C
Assay	98.0% to 102.0%	100.6 %
Total impurities	NMT 1.0%	0.4 %
Benzoic acid	NMT 0.15%	0.02 %
Thiamine content	NMT 0.15%	0.08 %
Loss on drying	NMT 1.5%	0.6 %
Chloride	NMT 0.053% [530 ppm]	< 0.053 %
Sulphate	NMT 0.011 % [110 ppm]	< 0.011 %
Total Heavy metals	NMT 20 ppm	< 20 ppm
Lead (Pb)*	NMT 3 ppm	< 0.02 ppm
Arsenic (As)*	NMT 1 ppm	< 0.01 ppm
Cadmium (Cd)*	NMT 1 ppm	0.089 ppm
Mercury (Hg)*	NMT 0.1 ppm	< 0.005 ppm
Total plate count*	NMT 1000 CFU/ g	< 10 CFU/g
Yeast & Mould*	NMT 100 CFU/ g	< 10 CFU/g
E. Coli*	Negative/ g	Negative

Conclusion: This report conforms to the standards and specifications mentioned above.

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

This is a computer-generated report therefore it is valid without signatures.

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