

Certificate of Analysis

TYPE 4812 – Gum arabic spray-dried powder

Batch	PC-13943-001
Production / test date	09/02/2024 (month/day/year)
Best before	September 2027
Regulatory conformity	E 414, Ph. Eur., USP, FCC
References	PO 4600028281 - 5.000 kg net

Analysis

Parameter	Target Value		Result	Method/ Reference
	Minimum	Maximum		
Appearance	fine, yellowish spray-dried powder		conforms	internal method
Solubility	dispersible in cold water forming a colloidal solution		conforms	internal method
Identification	passes tests		conforms	Ph. Eur.
Tragacanth	corresponding to the requirements		conforms	Ph. Eur.
Sterculia gum	corresponding to the requirements		conforms	Ph. Eur.
Starch, dextrin and agar	corresponding to the requirements		conforms	Ph. Eur.
Glucose and fructose	corresponding to the requirements		conforms	Ph. Eur.
Tannins	corresponding to the requirements		conforms	Ph. Eur.
pH-value (25 % in H ₂ O w/w)	4	5	4,6	internal method
Total ash [%]		4,0	3,2	USP
Acid-insoluble ash [%]		0,5	conforms	FCC
Insoluble matter [%]		0,1	< 0,1	FCC
Loss on drying [%]		10,0	7,6	Ph. Eur.
Colour ¹⁾	4	10	conforms	internal method
Viscosity after 24 h [mPa s] ²⁾	60	100	83	internal method
Specific optical rotation [°]	dextrorotatory		conforms	internal method
Arsenic [ppm]		3	conforms	ICP-MS
Lead [ppm]		2	conforms	ICP-MS
Mercury [ppm]		1	conforms	ICP-MS
Cadmium [ppm]		1	conforms	ICP-MS
Total plate count [cfu / g]		3000	< 1000	ISO 4833-1
Yeast [cfu / g]		100	< 10	ISO 21527-2
Mould [cfu / g]		100	< 10	ISO 21527-2
E. coli [in 5 g]		absent	absent	ISO 16649-3
Salmonella spp. [in 375 g]		absent	absent	ISO 6579-1

1) 25 % in H₂O w/w on dry matter, Lovibond Tintometer, 1 inch optical cell

2) 25 % in H₂O w/w, Brookfield, LVT, 60 min⁻¹, spindle 2, 20 °C

Remarks	The material conforms to the given specification. Analyses are based on validated methods.
Packaging	Bags (paper with PE inliner or laminated) or big bags.
Report date	Hamburg, 09/16/2024
Issued by	N. Jansen - QUALITY CONTROL (AUTOMATIC GENERATED COA, VALID WITHOUT SIGNATURE)

Warranty-relevant agreements can only be made in the respective purchase contract. Accordingly, the information in this data sheet is given to the best of our knowledge and belief and serves merely to provide a current description of the product which is not relevant to the warranty. A legally binding assurance of certain features or the suitability of the product for certain purposes cannot be derived from this. As a precaution, we point out that every user as purchaser is obliged by law to carry out an initial test of the product in order to determine the safety and suitability of the product for the purposes intended by the user.

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