

Description

The gum arabic is the dried gummy exudation of high molecular polysaccharides obtained from the stems and branches of *Acacia Senegal* L. Willdenow or closely related species of *Acacia* (fam. Leguminosae).

Organoleptic data

	<i>norms</i>	results
Taste, odor	<i>tasteless, odorless</i>	conforms
Appearance	<i>Yellowish to brown powder</i>	conforms

Chemical analysis

Loss on drying	$\leq 10.0 \%$	6.0 %
Total ash	$\leq 4.0 \%$	3.0 %
Acid insoluble matter	$\leq 0.1 \%$	< 0.01 %
Acid insoluble ash	$\leq 0.5 \%$	< 0.10 %
pH - 25% w/w aqueous solution	4 - 5	complies
Starch or dextrin	<i>absence</i>	complies
Tannin-bearing gums	<i>absence</i>	complies
Arsenic	< 3 mg/kg	complies
Lead	< 2 mg/kg	complies
Mercury	< 1 mg/kg	complies
Cadmium	< 1 mg/kg	complies

Physical analysis

Specific optical rotation-10% w/w aqueous solution	+35° to +60°	+48.4°
Viscosity -25% w/w aqueous solution <i>Brookfield LVDV2T-Sp1-30RPM-20°C</i>	≥ 60 cps	84.80 cps
Colour-25% w/w aqueous solution	$\leq 40^\circ$ Lovibond	36.5° Lov.
Granulometry	max 15% < 75µm	complies
Total fibre content (AOAC 985-29)	90% min. (on dry weight)	Complies

Microbiological analysis

Total viable count	< 2 000 cfu/g	330 cfu/g
Yeasts and mould	< 100 cfu/g	5 cfu/g
<i>Escherichia coli</i>	Neg. / 10g	neg. /10g
<i>Salmonella</i>	Neg. / 25g	neg. /25g

Conclusion

Commission Regulation (EU) No 231/2012 laying down specifications for food additives [E414], as amended
Current issues of European Pharmacopoeia, DAB, BP, USP/NF and FCC
Regulation (EU) 2018/848 of the European Parliament and of the Council of 30 May 2018 on organic production and labelling of organic products and its annexes. Certified organic by FR-BIO-01
Compliant to the USDA organic regulations, 7 CFR Part 205. Certified organic by ECOCERT SA