

ANALYSIS CERTIFICATE

Product: TEQGUM 358 (INSTANT SOLUBLE GUM ACACIA)

Batch : 243036

Manufacturing date : 21 January 2024 **Invoice Number:** DRJ2024000000263

Expiry date : 20 January 2027 **Invoice Date :**15.08.2024

Description

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

Alveolar structure insuring an easy flow, a good dispersibility and a quick dissolving at room temperature.

Organoleptic data

	DRAJE GIDA SPECIFICATIONS	RESULTS
Taste, odor	tasteless, odorless	Complies
Appearance	white or yellowish-white free flowing powder	Complies

Chemical analysis

Loss on drying	≤ 10.0 %	6.0 %
Total ash	≤ 4.0 %	3.2 %
Acid insoluble matter	≤ 0.1 %	< 0.01 %
Acid insoluble ash	≤ 0.5 %	< 0.10 %
pH (25% w/w solution, 20°C)	4 – 5	4.60
Starch or dextrin	absence	Complies
Tannin-bearing gums	absence	Complies
Arsenic	< 3 mg/kg	< 3 mg/kg
Lead	< 2 mg/kg	< 2 mg/kg
Mercury	< 1 mg/kg	< 1 mg/kg
Cadmium	< 1 mg/kg	< 1 mg/kg
Heavy metals	-	< 20 mg/kg

Physical analysis

Specific optical rotation (10% w/w solution, 20°C)	+35° to +60°	+47.6°
Viscosity (25% w/w solution, 24h, 20°C, Brookfield LVDV2T, Spindle 1, 30 RPM)	≥ 60 cps	109.4 cps
Colour (25% w/w solution, Lovibond tintometer 25mm optical cell)	4 to 10° Lovibond	Complies
Granulometry standard	Max 15% < 75 µm	Complies

Microbiological analysis

Total viable count	< 1 000 cfu/g	< 5 cfu/g
Yeasts and mould	< 100 cfu/g	< 5 cfu/g
<i>Escherichia coli</i>	Neg./10g	Complies
<i>Salmonella</i>	Neg./25g	Complies
Coliforms	-	Complies

Conclusion

Compliance with the current issues of European Pharmacopoeia, DAB, BP, USP/NF and FCC and Commission Regulation (EU) No 231/2012 laying down specifications for food additives [E414], as amended. Compliance with **DRAJE GIDA VE ŞEK. SANAYI VE TICARET LTD. ŞTİ.** and A&R specifications.