

## SPECIFICATION SHEET

<b>PRODUCT</b>	<b>TARA GUM</b>	Product code	TARA 84
		Common Name	Peruvian carob
Synonyms	Tara gum . Chemical Abstracts Service (CAS) registry number 39300- 88-4, E 417, EINECS 254 -409 -6		
Material Description	Obtained by grinding the endosperm of seeds of <i>Caesalpinia spinosa</i> ; consists chiefly of polysaccharides of high molecular weight composed mainly of galactomannans. The principal component consists of a linear chain of (1,4)-beta-D-mannopyranose units with alpha-D-galacto-pyranose units attached by (16). The ratio of mannose to galactose in tara gum is 3:1. (In carob bean gum this ratio is 4:1 and in guar gum 2:1) The article of commerce may be further specified as to viscosity and loss on drying.		
Shelf life and storage	Two years. Store in a dry and ventilated environment at room temperature.		

Approval	<b>TARA GUM</b> , is in full compliance with JECFA (1986) and UE 231/2012 regulation
Composition	Tara gum 100%
Application	In the food industry it is used as a stabilizer or thickener.

### PHYSICO-CHEMICAL REQUIREMENTS:

Appearance	White yellow powder
Solubility	Soluble in cold and hot water, insoluble in ethanol.
Galactomanans(*)	≥80%
Particle Size	80% mesh 100
Loss on drying	<15%
pH (1%)	6 – 8



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Viscosity(*)	Viscosity 1% solution, Brookfield RVT, a 20 RPM, Spindle 4 Hot Dissolution 86°C 10min Measured at 25°C 4000 - 6800 cps
Total ash(*)	Not more than 1,5%
Acid insoluble matter(*)	Not more than 2%
Starch(*)	Not detectable
Protein (N x 6,25)(*)	Not more than 3,5%
Heavy Metals (*)	Arsenic $\leq 3$ ppm Lead $\leq 2$ ppm Cadmium $\leq 1$ ppm Mercury $\leq 1$ ppm Total Heavy Metals ( Cu + Zn) $\leq 20$ ppm

\*Analysis performed periodically.

#### MICROBIOLOGICAL REQUIREMENTS:

Total plate count	Not more than 5000ufc/g
Mould count	Not more than 500ufc/g
Yeast count	Not more than 500ufc/g
Coliforms*	Absent /1g
E coli*	Absent /1g
Salmonella spp*	Absent in 25 gr

\*Analysis performed periodically.

#### PACKING AND STORE CONDITIONS:

Store conditions	Two years at normal temperature. Store in a dry Location. No refrigeration needed. Prevent from humidity
Packing	Double polyethylene bags of 25 Kg. inside a paper bags.