

**CERTIFICATE OF ANALYSIS**

**Product Name:** Fenugreek Extract      **Latin Name:** Trigonella Foenum-Graecum  
**Batch Number:** 20210705      **Used Part:** Seed  
**Batch Quantity:** 110KG      **Analysis Date:** July 5, 2021  
**Manufacture Date:** July 5, 2021      **Certificate Date:** July 15, 2021

ITEM	SPECIFICATION	RESULTS
<b>Description:</b>		
Appearance	Yellow Powder	Conforms
Odor	Characteristic	Conforms
Particle size	100% pass 80 mesh sieve	Conforms
Extract Solvents	Water & Ethanol	Conforms
<b>Assay:</b>		
Saponins	≥10% by UV	14.80%
4-hydroxyisoleucine	≥2% by HPLC	2.05%
<b>Physical:</b>		
Loss on Drying	≤5%	2.82%
Total Ash	≤5%	4.52%
<b>Chemical:</b>		
Arsenic (As)	≤2mg/kg	Conforms
Lead (Pb)	≤5 mg/kg	Conforms
Mercury (Hg)	≤0.1mg/kg	Conforms
Cadmium (Cd)	≤1mg/kg	Conforms
Heavy Metals	≤20mg/kg	Conforms
Solvent Residue		
Ethanol	≤5000ppm	Conforms
<b>Microbial:</b>		
Total Plate Count	≤1000cfu/g Max	Conforms
Yeast & Mold	≤100cfu/g Max	Conforms
E.Coli	Negative	Conforms
Salmonella	Negative	Conforms
Staphylococcus	Negative	Conforms

**Conclusion** Conform to specification

**Storage** Store in cool & dry place. Keep away from strong light and heat.

**Shelf life** 2 years when properly stored.

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 Analyst