

Certificate of Analysis

Product: Chickpea Flour

Product Code : 100-F-1
Botanical Name : *Cicer arietinum*
Family Name : Fabaceae
Parts of the Plant : Seed
Shelf life : 24 months from manufacture (see storage conditions)
Lot Code : AF-275-18
Manufacturing date : 10/2/2018
Expiration Date : 10/1/2020
Manufacturing Location:
 Custom Processing Services
 2 Birchmont Drive
 Reading, PA 19606

Ingredient Declaration: Chickpea

Product description: white in color, free flowing powder; typical particle size <20 micron

Physical:

Attribute	Target	Result	Method
Moisture	<7%	4.7%	AOAC 930.15
Total Protein	14% (+/- 4%)	15.2%	AOAC 990.03

Microbiological:

Analysis	Target	Result	Method
Aerobic plate count	<50,000 cfu/g	5,800 cfu/g	AOAC 990.12 8 th Ed.
Yeast and Mold	<100 cfu/g	<10 cfu/g	AOAC 997.02 16 th Ed.
Total coliforms	<10 cfu/g	<10 cfu/g	AOAC 991.14 18 th Ed.
E. coli	n.d. cfu/g	<10 cfu/g**	AOAC 991.14 18 th Ed.
Salmonella	Negative org/100g	Negative	AOAC 967.27 18 th Ed.
Staphylococcus aureus	n.d. per 25 g	<10 cfu/g**	AOAC 987.09 16 th Ed.

Chemical:

Analysis	Limit	Result	Method
Arsenic	<500 ppb	<10 ppb	ICP-MS
Lead	<250 ppb	<5 ppb	ICP-MS
Mercury	<100 ppb	<5 ppb	ICP-MS
Cadmium	<500 ppb	<5 ppb	ICP-MS
Pesticides	<MRL per USP 565	n.d.	GC-MS
***Gluten residue	<10 ppm	<5 ppm	Neogen Veratox

Storage conditions: Store in cool, dry place below 25°C

Packaging: 25 kg bags

*Each lot accompanied by a certificate of analysis

**Represents limit of detection

***Tested as gliadin <5ppm

Signature 