

R805 CERTIFICATE OF ANALYSIS



Product

**Nutrifen®
Fenugreek Meal (Animal Feed)**

Lot No.

045164A13B

Date of Manufacture
Test Date
Re-test Date
Certificate Issued

Feb 14, 2013
Feb 27, 2013
Feb 27, 2015
April 4, 2013

A. Identity

Ingredients

Nutrifen® (fiber-depleted fenugreek seed, trigonella foenum-graecum),

Color

Yellow

Flavor

Strong, Bitter

Origin

Product of Canada

GMO Status

Produced from non GMO seed and ingredients

Sterilization

Not Sterilized

B. Analysis

	Unit	Specification	Test Result (dwb)
Moisture	%	< 15	10.62
Crude Protein	%	> 25	32.52
Crude Fiber	%	< 15	9.59
Fat	%	> 8	10.15
Ash	%	< 8	4.36

C. Micronutrients

Calcium	%	-	0.29
Phosphorus	%	-	0.65
Magnesium	%	-	0.22
Potassium	%	-	1.42
Copper	Mg/kg	-	13.59
Sodium	%	-	0.03
Sodium Chloride	%	-	0.08
Zinc	Mg/kg	-	37.71
Manganese	Mg/kg	-	22.69
Iron	%	-	0.01

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D. Microbial Profile	Unit	Specification	Test Result (dwb)
Mold	cfu/gm	< 50,000	250
Standard Plate Count	cfu/gm	< 250,000	150,000
Salmonella	cfu/gm	Not Detected	Negative
Escherichia coli	cfu/gm	Not Detected	< 10
Yeast	cfu/gm	< 25,000	1700

E. Nutrient Analysis

Total Digestible Nutrients	%	-	77.16
Non Fiber Carbohydrates	%	-	42.49
Digestible Energy for Swine	Kcal/kg	-	4139.23
Gross Energy for Swine	Kcal/kg	-	5007.41
Metabolizable Energy for Swine	Kcal/kg	-	3868.99
Metabolizable Energy for Poultry	Kcal/kg	-	36.5.50
Digestible Energy for Cattle	Mcal/kg	-	3.56

E. Saponin Analysis	mg/g	> 15.0	29.5
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F. Physical

Particle Size	Micron (μ)	95.0% < 725 μ	97.0
Bulk Density	kg/L	0.6 to 0.9 kg/L	0.8

We hereby certify that the above product lot was analyzed as per approved test methods.

Blaine Sudom
COO
Emerald Seed Products Ltd.