

VegeFull™

Navy Beans – Cooked

Powder and Grits



Product Description

Instant dehydrated whole navy bean powder and grits can be used as an ingredient in baked, extruded, semi-moist, or canned pet food applications. This product is light tan to pale yellow in color. Ground navy beans have a mild to bland sweet bean flavor. Since the navy bean powder and grits come precooked, they reconstitute in five minutes.

Product Application

Powder: For baked applications, replace a percentage of flour 1:1 with navy bean powder for baked items; can use 10-25% replacement.

Tip: Adjust water as navy bean powder contains less moisture than most flours. Cold water hydration disperses best.

For extruded applications: Can use a 10-25% replacement.

Tip: Navy bean powder works well in combination with corn meal, rice flour, tapioca starch, and other typical ingredients.

Grits: Use as a partial replacement for protein portion of recipe.

Physical & Chemical Characteristics

Granulation:

Powder: 95% through #80 sieve

Grits: 99% through #6 sieve

Typical Proximate Data

Moisture	6.0%
Protein (Nx6.25, DMB)	22.0%
Fat (acid hydrolysis)	3.0%
Carbohydrates	66.0%
Crude Fiber (DMB)	5.02%
ADF (DMB)	10.46%
aNDF (DMB)	15.80%
Ash	4.0%

Typical Analysis (per 100 g dry)

Kcal (AAFCO Pet)	365
Fatty Acid Profile	
Total fat	3 g

Saturated fat	0.5 g
Monounsaturated fat	0.3 g
Total Dietary Fiber	23 g
Soluble fiber	5 g
Sugars (HPLC)	
Total sugars	4.5 g
Sucrose	4.5 g
Vitamins	
Vitamin A	trace
Vitamin C	trace
Folate	140 µg
Minerals	
Sodium	10-40 mg
Potassium	490-1000 mg
Calcium	100-300 mg
Magnesium	50-150 mg
Zinc	1-4 mg
Iron	2-6 mg
Copper	< 2 mg

Typical Amino Acids (g/100 g protein)

Aspartic acid	12.1
Threonine*	4.6
Serine	6.0
Glutamic Acid	15.2
Proline	4.1
Glycine	4.2
Alanine	4.6
Cystine	1.0
Valine*	5.6
Methionine*	1.2
Isoleucine*	4.7
Leucine*	8.1
Tyrosine	3.5
Phenylalanine*	6.1
Histidine*	2.9
Lysine*	6.5
Arginine	6.1
Tryptophan*	1.1

*Essential amino acids



Microbial Data

Standard plate count, max.	40,000/g
Coliform	100/g
<i>E. coli</i>	< 3/g
<i>Staphylococcus</i>	< 10/g
<i>Salmonella</i>	Negative
Yeast and Mold	100/g

Quality Control

This product is manufactured in accordance with a GMP and HACCP based quality assurance program.

Storage & Handling

Recommended shelf life is 18 months from date of manufacture when stored under cool, dry conditions.

AAFCO Ingredient Definition

Powder: Ground dried cooked navy beans

Grits: Dried cooked navy beans

Ordering Information

Product numbers:

Powder: 40069015

Grits: 40068015

Container size: Powder and Grits: 40 lb (18.1 kg)
multi-layered paper bags, 50 per pallet

Order minimum: Powder and Grits: 1 pallet (2000 lb)

Customer service: 800-775-3295

or ANI_Service@adm.com

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