

# VegeFull™

## Pinto Beans – Cooked

### Powder and Grits



### Product Description

Instant dehydrated whole pinto bean powder and grits can be used as an ingredient in baked, extruded, semi-moist, or canned pet food applications. This product is light brown to pale brown in color. Ground pinto beans have a mild to bland, sweet bean flavor. Since the pinto 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 pinto bean powder for baked items; can use 10-25% replacement.

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

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

**Tip:** Pinto 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 .....	9.5%
Protein (Nx6.25, DMB) .....	21.0%
Fat (acid hydrolysis) .....	2.0%
Carbohydrates .....	69.0%
Crude Fiber (DMB) .....	4.59%
ADF (DMB) .....	9.08%
aNDF (DMB) .....	11.70%
Ash .....	4.0%

#### Typical Analysis (per 100 g dry)

Kcal (AAFCO Pet) .....	360
Fatty Acid Profile	
Total fat .....	2.3 g

Saturated fat .....	0.5 g
Monounsaturated fat .....	0.2 g
Total Dietary Fiber .....	23 g
Soluble fiber .....	7 g
Sugars (HPLC)	
Total sugars .....	4 g
Sucrose .....	4 g
Vitamins	
Vitamin A .....	trace
Vitamin C .....	trace
Folate .....	120 µg
Minerals	
Sodium .....	10-40 mg
Potassium .....	1000-1500 mg
Calcium .....	100-300 mg
Magnesium .....	100-200 mg
Zinc .....	1-4 mg
Iron .....	2-6 mg
Copper .....	< 2 mg

#### Typical Amino Acids

(g/100 g protein)

Aspartic acid .....	11.3
Threonine* .....	4.2
Serine .....	5.7
Glutamic Acid .....	14.4
Proline .....	3.8
Glycine .....	4.0
Alanine .....	4.3
Cystine .....	0.8
Valine* .....	4.7
Methionine* .....	1.0
Isoleucine* .....	4.2
Leucine* .....	7.8
Tyrosine .....	3.3
Phenylalanine* .....	5.7
Histidine* .....	2.3
Lysine* .....	6.6
Arginine .....	6.0
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 pinto beans

Grits: Dried cooked pinto beans

## Ordering Information

Product numbers:

Powder: 40004015

Grits: 40072015

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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