

Corn Soy Blend

This processed commodity is used mainly as a weaning food in Maternal Child Health Programs (MCH), and to a lesser extent in emergency and other types of programs.

A. NUTRITIONAL VALUES (PER 100 g)

These are average values, taken from the U.S. Department of Agriculture, Agricultural Research Service (USDA:ARS) 1998 USDA Nutrient Database, Release 12, Laboratory Home Page, (<http://www.nal.usda.gov/fnic/foodcomp>). These nutrient values are provided as a guide for use in the calculation of food aid rations; users should be aware that shipments of food aid may vary from these exact values.

B. COMPONENTS

69.5% Cornmeal: Processed, gelatinized
 21.8% Soy flour: Defatted, toasted
 5.5% Soybean oil: Refined, deodorized, stabilized
 3.0% Minerals and Vitamin Antioxidant premix

C. SPECIFICATIONS

Salmonella, E. Coli and Coagulase Positive. Staphylococci will be negative.
 Dispersability - will be essentially free from lumping or balling when mixed with water.
 For micronutrient addition level standards, refer to Section I, p. 7 (See Table next page.)

D. PACKAGING

25 kg (55 lb.) bags of multi-wall paper. Three plies of paper (minimum) with an inner polyethylene or polypropylene plastic liner. The outer paper ply is treated to provide wet strength.

E. SHELF LIFE

The shelf life for CSB is a minimum of one year. The Best if Used By Date (BUBD) for CSB is eighteen months. See Section III: Storage/Shelf Life Specifications for more information.

Nutrient	Amount	Unit
Water	9.7	g
Energy	375.7	Kcal
Protein	17.2	g
Total Lipid	6.9	g
Carbohydrate	61.7	g
Fiber, total dietary	9.0	g
Ash	1.8	g
Calcium	831	mg
Iron	17.49	mg
Magnesium	173.8	mg
Phosphorus	206	mg
Potassium	634	mg
Sodium	7.3	mg
Zinc	5.0	mg
Copper	0.9	mg
Manganese	0.7	mg
Selenium	6	mcg
Vitamin C	40	mg
Thiamin	0.53	mg
Riboflavin	0.48	mg
Niacin	6.23	mg
Pantothenic acid	3.4	mg
Vitamin B-6	0.5 ¹	mg
Folate	300	mcg
Vitamin B-12	1	mcg
Vitamin A	2612.2	IU
Vitamin E	8.7	mg-ATE
Vitamin D	198.0	IU
Iodine	56.9	mcg

¹ 0.2 mg added as Pyridoxine HCL

CHEMICAL AND PHYSICAL REQUIREMENTS

ITEM	REQUIREMENT ¹	
	Minimum	Maximum
Moisture, %	--	10.0
Protein (Nx6.25), %	16.7	--
Fat, %	6.0	--
Crude Fiber, %	--	2.0
Material Through a U.S. Standard No. 6 Woven-Wire-Cloth Sieve, %	99.0	--
Material Through a U.S. Standard No. 30 Woven-Wire Cloth Sieve, %	--	92.0
Material Through a U.S. Standard No. 60 Woven-Wire-Cloth Sieve, %	--	57.0
Consistency (Bostwick value) uncooked	--	20.0
Consistency (Bostwick value) Cooked, 11.75 % gruel	9.0	21.0
Total bacteria count per gram	--	50,000

¹ Unless otherwise specified analyses are expressed on a moisture-free basis.

Source: USDA:FSA:PDD:EOB April, 1996. Contact 202-690-3565
<http://www.fas.usda.gov/excredits/pl480/commodities/cornsoy.htm>