Technical Data Sheet

Nutraberry Defatted Raspberry Seed Powder sized to 70 mesh

Product Code: RSPD

Nutraberry Defatted Raspberry Seed Powder is a product of raspberry seeds (Rubus Idaeus L.) that has had the fatty acids removed by cold-press extraction. The remaining seed product is then referred to as "defatted". The starting material "seed cake" of the crushed fruit is used intact with the only processing of cold pressing the seed, extracting the seeds Fatty Acids and a fraction of the naturally occurring Vitamin E. The starting material is ≈30% flesh before drying. The result is a full spectrum of naturally occurring compounds and ratios thereof derived from unaltered raspberries inclusive of dietary fiber and the key component ellagitannins. Science identifies these compounds as antioxidants with a host of beneficial effects. The source of these compounds is from fruit grown and harvested in the state of Washington where it is harvested only once per year. The processing of the "seed cake" is minimal, with only drying, cold-pressing, and grinding occurring to provide the benefits of the raspberry and the constituent antioxidant ellagitannins.

TYPICAL CHARACTERISTICS

Description	Powder form of raspberry seed
Latin Binomial	*Rubus Idaeus L.*
Country of Origin	Grown and processed in the United States in the state of Washington
Particle Size	90% through 70-mesh US
Appearance	Characteristic of raspberry seed, fine powder

SPECIFICATIONS	LIMITS	METHODS
Botanical Identity	Conforms	HPTLC
Dietary Fiber	NLT 60%	AOAC
Moisture	LT 6%	Loss on Drying
Heavy Metals		
Lead	LT 1.5 ppm	ICP-MS
Arsenic	LT 2.0 ppm	ICP-MS
Cadmium	LT 0.5 ppm	ICP-MS
Mercury	LT 0.5 ppm	ICP-MS
Microbiology		
Total Aerobic Plate Count	NMT 100 cfu/g	FDA-BAM
Yeast and Mold	NMT 100 cfu/g	FDA-BAM
Coliforms	Negative (LT 5 cfu)	FDA-BAM
E. coli	Negative (LT 5 cfu)	FDA-BAM
Salmonella	Negative	FDA-BAM
Staph. Aureus	Negative (LT 5 cfu)	FDA-BAM

Typical Analytical Details - Polyphenols [1]

Nutrient:	Ellagic Acid	Ellagitannins	Proanthocyanidins	Total Polyphenols
Content:	50 mg/100 g	1760 mg/100 g	370 mg/100 g	2150 mg/100 g

1. Kosmala, M., et al., Chemical composition of defatted strawberry and raspberry seeds and the effect of these dietary ingredients on polyphenol metabolites, intestinal function, and selected serum parameters in rats. J Agric Food Chem, 2015. 63(11): p. 2989-96.