



PhytoClean™

PRODUCT SPECIFICATION

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PhytoClean™ Pecan

Ingredient	Pecan Shell
Scientific Name	<i>Carya illinoensis</i>
Plant Part Used	Shell
Plant Origin	USA
Extraction Solvent	Low Polarity Water
Carrier Used	None
Preservative Used	None
Extraction Location	British Columbia, Canada

Sensory Quality

	Specification	Method
Aspect	Free flowing powder	Visual
Color	Brown	Visual
Flavor	Characteristic	Gustatory
Odor	Characteristic	Olfactory

Analytical Quality

	Specification	Method
Total Polyphenols	≥ 45%	FC/ UV-Vis
Moisture	≤ 8%	AACCI 44-40.01
Residual Organic Solvents	0%	USP/NF
Particle Size Through 40 Mesh	100%	USP



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Microbiological Counts

	Specification	Method
Total Plate Count	≤1,000 CFU/g	USP 37 <2021>
Yeast and Molds	≤100 CFU/g	USP 37 <2021>
<i>Salmonella</i>	Negative	USP 37 <2022>
<i>Escherichia coli</i>	Negative	USP 37 <2022>
<i>Staphylococcus aureus</i>	Negative	USP 37 <2022>

Heavy Metals

	Specification	Method
Arsenic	≤ 1.0 ppm	ICP-MS
Cadmium	≤ 1.0 ppm	ICP-MS
Mercury	≤ 0.10 ppm	ICP-MS
Lead	≤ 2.0 ppm	ICP-MS

Storage Conditions Store in a tightly sealed container, in a cool room (< 25°C), sheltered from light, moisture, and oxygen.

Recommended Handling conditions This product is hygroscopic and will absorb moisture if left exposed to the atmosphere. Handling at less than 40% relative humidity is recommended.

- Quality Statements**
- No organic solvents were used in the production of this ingredient.
 - This ingredient does not contain any Genetically Modified Organisms.
 - This ingredient is not treated with ETO or gamma irradiation.
 - This ingredient qualifies for vegan status. During processing and in the final make-up, no ingredient(s) is (are) added or derived from any animal sources.

Last Update: 05/02/2017
Version: 3.0

