



# Bulk Naturals Wholesale LLC

**bulknaturalswholesale.com**

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## WHITE WILLOW BOTANICAL EXTRACT POWDER 25% SALICIN

### CERTIFICATE OF ANALYSIS

LOT: BN201115/BE

**Manufacture Date:** November 15, 2020

**Expiration Date:** November 14, 2023

**QA Signature:** Steven Konert

Specification	Parameter	Result	Method
Content	Salicin $\geq$ 25.0%	25.66%	HPLC    USP<621>
Identification	Correspond to Standard	Conform	TLC    USP<201>
<b>PHYSICAL CHARACTERISTICS</b>			
Odor & Taste	Characteristic	Conform	Organoleptic
Particle Size	NLT 95.0% Through 80 mesh	95.93%	Analytical sieving    USP <786>
Loss on Drying	NMT 5.0 %	3.55%	USP <731>
Total Ash	NMT 20.0 %	18.52%	USP <561>
Bulk Density	Between 40~70 g/100mL	46.78 g/100mL	USP <616> Method I
Tapped Density	Between 50~90 g/100mL	57.56 g/100mL	USP <616> Method I
<b>CHEMICAL CHARACTERISTICS</b>			
Residual Solvent	NMT 5,000ppm	Conform	GC    USP <467>
Pesticide Residue	Meet the requirments	Conform	GC    USP <561>
Heavy Metals	NMT 10ppm	Conform	USP <231> Method II
Arsenic (As)	NMT 2ppm	0.417 ppm	ICP-MS    USP <233>
Lead (Pb)	NMT 2ppm	1.012 ppm	ICP-MS    USP <233>
Cadmium (Cd)	NMT 1ppm	0.440 ppm	ICP-MS    USP <233>
Mercury (Hg)	NMT 1ppm	0.055 ppm	ICP-MS    USP <233>
<b>MICROBIOLOGICAL CHARACTERISTICS</b>			
Total Plate Count	NMT 10,000 cfu/	200 cfu/g	USP<61>
Total Yeast & Mold	NMT 1,000 cfu/g	50 cfu/g	USP<61>
E.Coli	Not Detected in(g) 10	Not Detected	USP<62>
Salmonella	Not Detected in(g) 10	Not Detected	USP<62>
Staphylococcus	Not Detected in(g) 10	Not Detected	USP<62>
Storage	Store in tight, light-resistant containers, and avoid exposure to direct sunlight, moisture and excessive heat.		

Shelf life is guaranteed for three years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Containers that have been opened should be tested at least yearly to ensure potency. Although Bulk Naturals Wholesale LLC believes the above information to be accurate based on the information available to Bulk Naturals, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to using to verify that the product purchased from Bulk Naturals meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material are subject to Bulk Naturals Wholesale LLC. standard terms and conditions, which supersede any conflicting terms contained on the Buyer's purchase order or any document or instrument supplied by the Buyer.