



TAMAQUA PA 18252

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CERTIFICATE OF ANALYSIS

IDENTIFICATION

Product Name:	Pine Bark Powder Extract 4:1
Botanical Name:	Pinus Maritima
Origin:	USA
Part used:	Bark

ANALYSIS

SPECIFICATION

RESULT

TEST

Description	Powder	Powder	Visual
Identification	Positive	Conform	TLC
Color	Brown	Brown	Visual
Taste	Characteristic	Conform	Organoleptic
Odor	Characteristic	Conform	Organoleptic
Moisture	5% Max	4.8%	AOAC
Heavy Metals	<20ppm	<20ppm	ICP-MS
(Pb)	<2ppm	<1ppm	
(As)	<1ppm	<1ppm	
Extraction Solvents	Grain Alcohol-Water System		
Mesh Size	100% through USS 40 mesh		

HERBAL STRENGTH

Polyphenols			
Extract Ratio	4:1	(Parts of Botanical: Parts of native extract)	

MICROBIOLOGICAL

Total Plate count	≤100,000cfu/g	<10,000cfu/g	USP <2021>
Yeast	≤1,000cfu/g	10cfu/g	USP <2021>
Mold	≤1,000cfu/g	10cfu/g	USP <2021>
Total Coliforms	≤100cfu/g	10cfu/g	FDA BAM
E. coli	Absent/10g	Absent/10g	USP <2021>
Salmonella	Negative	Negative	AOAC 998.09

Storage:

Store in a tightly, sealed container in a cool and dry area.
 Keep away from strong light and heat.
 This product is Non-GMO.
 This product is not treated with ETO, nor is it Gamma irradiated.