



Certificate of Analysis

Chitosan Herbal Extract

Product information

Product name	Chitosan
Botanical name	/
Plant part	
Country of origin	P.R.CHINA

Batch information

Batch no.	4338202
Best Before End:	October 2020

Analysis item

Specification

Result

Analysis test method

Assay	90% Deacetylation	91.213	Volumetry Titrator
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Organoleptic properties

Appearance ¹	Fine White powder	Conform to specification	Visual
Taste	Typical to botanical	Conform to specification	Gustatory
Odor	Typical to botanical	Conform to specification	Olfactory
Physical properties			
Sieve analysis	80	Conform to specification	Mesh screen or equivalent
Moisture content	≤10%	9.38%	IR balance or equivalent
Ash	≤5%	0.84%	2g/525°C/5hrs or equivalent
Heavy metals ²			
Arsenic (As)	≤ 1 ppm	Conform to specification	AA or equivalent
Cadmium (Cd)	≤ 1 ppm	Conform to specification	AA or equivalent
Lead (Pb)	≤ 3 ppm	Conform to specification	AA or equivalent
Mercury (Hg)	≤ 0.1 ppm	Conform to specification	AA or equivalent
Total heavy metals	≤ 10 ppm	Conform to specification	Colorimetry or equivalent
Microbiology			
Total plate count	≤10000cfu/g	Conform to specification	AOAC or equivalent
Yeasts & Molds	≤1000cfu/g	Conform to specification	AOAC or equivalent
Salmonella	Absent/10g	Conform to specification	AOAC or equivalent
E.Coli	Absent/1g	Conform to specification	AOAC or equivalent
Sterilization method	High Temperature & High Pressure Short time (5" - 10")		
Identification	Positive	Conform to specification	TLC
Additional information			
Bulk Density	0.3g/ml	Conform to specification	
Molecular Formula	(C ₆ H ₁₁ O ₄ N) _n	Conform to specification	
Molecular Weight	(161) _n	Conform to specification	