NATURE SCIENCE TECHNOLOGIES

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QUALITY SPECIFICATION

Konjac Extract

Catalog No.: NST-8-39

CAS No.: 37220-17-0

Source: *Amorphophallus konjac*

Part used: root

Solvent used: water and ethanol

Shelf life: 24 months

No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Light yellow to white	Visual
3.	Identification	Conforms	TLC
4.	Assay (Glucomannan)	≥85.0 %	UV
5.	Odor	Characteristic	Organoleptic
6.	Taste	Characteristic	Organoleptic
7.	Sulfated ash	≤5.0 %	Ph. Eur. 2.4.14
8.	Loss on drying	≤5.0 %	Ph. Eur. 2.8.17
9.	Mesh size/sieve	≥95 % pass 80 mesh	80 mesh
10.	Bulk density	≤0.8 g/ml	Density meter
11.	pH	5.0–7.0	pH meter
12.	SO_2	≤0.3 %	GB 5009.34-2016
13.	Viscosity	≥32.000 mPa.s	NY/T 494-2010
14.	Sand content	≤0.04 %	GB/T 5508
15.	Aflatoxin B1	≤5.0 µg/kg	Third lab

16.	Solvent residues	Ph. Eur. 2.4.24	Ph. Eur. 2.4.24
17.	Pesticide residues	EC 396/2005	Third lab
18.	Ethylene oxide	EC 396/2005	HACCP
19.	Benzo[a]pyrene	(EU) 2023/915	HPLC
20.	PAHs	(EU) 2023/915	HPLC
21.	Heavy Metals	≤10 ppm	ICP-MS
22.	Lead	≤2 ppm	ICP-MS
23.	Arsenic	≤1 ppm	ICP-MS
24.	Mercury	≤0.1 ppm	ICP-MS
25.	Cadmium	≤1 ppm	ICP-MS
26.	TPC	$<10^3$ CFU/g	AOAC,BAM
27.	TYMC	$<10^2$ CFU/g	AOAC,BAM
28.	*Escherichia Coli*	Absent	AOAC,BAM
29.	*Salmonella*	Absent	AOAC,BAM
30.	*Staphylococcus aureus*	Absent	AOAC,BAM

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored