



EMMERICH
RESEARCH CENTER

Data Sheet

Purified Chitosan

(Black Soldier Fly)



No.	Parameter	Result	Unit	Method
1	Appearance of Solid Product	Beige to Brown Powder		QK-PA-0001
2	Appearance of solution	Brown, Not Clear, Turbid Solution		QK-PA-0002
3	Degree of Deacetylation	83.9	%	QK-PA-0003
4	Viscosity	155	mPa.s	QK-PA-0004
5	Protein	0.34	%	QK-PA-0008
6	Sulphated Ash	0.25	%	QK-PA-0005
7	Insolubles	< 0.5	%	QK-PA-0010
8	Heavy metals			
	Cd	<0.2	ppm	QK-PA-0020
	As	<0.1	ppm	QK-PA-0020
	Pb	<0.02	ppm	QK-PA-0020
	Hg	0.05	ppm	QK-PA-0020
9	Molecular Weight			
	Mw	229	kDa	QK-PA-0009
	Mn	83	kDa	QK-PA-0009
10	Identity (IR)	Complies		QK-PA-0017
11	Dry Matter Content	91.8	%	QK-PA-0006
12	pH	7.4		QK-PA-0013
13	Endotoxins (rFc)	195	EU/g	QK-PA-0007
14	Bioburden			
	TAMC	<100	CFU/g	QK-PA-0022
	TYMC	<100	CFU/g	QK-PA-0022
	E.Coli	Absent		QK-PA-0022
	P. Aeruginosa	Absent		QK-PA-0022
	St. Aureus	Absent		QK-PA-0022
	Salmonela	Absent		QK-PA-0022



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15	Heavy Metals (Additional)							
	Co		<0.25	ppm	QK-PA-0020			
	V		<0.01	ppm	QK-PA-0020			
	Ni		<0.02	ppm	QK-PA-0020			
	Mo		<0.01	ppm	QK-PA-0020			
	Cu		0.5	ppm	QK-PA-0020			
	Cr		4.9	ppm	QK-PA-0020			
	Fe		7.7	ppm	QK-PA-0020			
	Tl		0.34	ppm	QK-PA-0020			
	Se		<0.2	ppm	QK-PA-0020			
	Ag		<0.5	ppm	QK-PA-0020			
	Li		<0.1	ppm	QK-PA-0020			
	Sb		<0.25	ppm	QK-PA-0020			
	Ba		<0.01	ppm	QK-PA-0020			
	Sn		<0.25	ppm	QK-PA-0020			
1.	Company	:	Hermetia Bio Science					
2.	Project No.	:	18013					
3.	Document No.	:	SPEC 18013-P3-G-0000-DS-CHP002A_A					
4.	Laboratory	:	Heppe Medical Chitosan GmbH					
5.	Reference No.	:	Sample Analysis Report 2024					
6.	Sample Number	:	CHP 0002					
7.	Sample Name	:	Chitosan					
			Purified					
8.	Date Received	:	-					
9.	Date of Analysis	:	18-Jan-2024					
10.	Type of Analysis	:	See Above					
Comments:								
Rev No.	Date	Revision	Description	Prepared by	Lab.	ERC	OBU	HBS
A	10-Jan-24		Issued for Information	ESC	HMC	ES	DM	EA