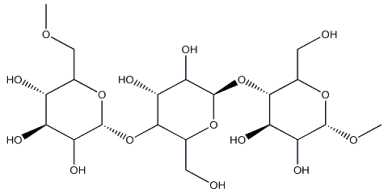


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CERTIFICATE OF ANALYSIS

Product Name:	Pullulan	CAS NO:	9057-02-7
Molecular Formula:	C ₂₀ H ₃₆ O ₁₆	Constitutional Formula :	
Molecular Weight:	532.49024		
Manufacture date:	2019.07.05		
Batch No.:	20190705		
Expiration date	2021.07.04		
Test Items	Specification	Test Results	
Appearance	Almost white powder particles	White powder particles	
Viscosity (10% solution, and 30 °C)	15-180	110	
Mono-, di, and oligosaccharides (in glucose meter)	≤10	0.96	
Total Nitrogen w/%	≤0.05	<0.05	
Loss on drying w/%	≤10	3.13	
Light transmittance (10% solution, and 620nm)		91.6	
Heavy metals {to lead (Pb)} mg/kg	≤2.0	<2.0	
Ignition residue	≤8.0	0.115	
PH	5.0-8.0	5.9	
Total number of colonies	≤10000	<100	
Fecal coliform	≤3.0	<3.0	
Conclusion	This product according to GB 28402-2012 stand test, the results meet the requirement.		

Analyst: 连俊昊



Supervisor: 李文