

# Career Henan Chemical Co.

## Certificate of Analysis

Product name: Pullulan

Quantity: 480kg

Batch No.: C2018051603

Production Date: 2018.05.23

Expiry Date: 2020.05.22

Item	Specification	Result
Description	White powder particles	White powder particles
Identify	Viscosity	Meet the requirements
	Reaction with Pullulanase	Meet the requirements
	Precipitation with polyethylene glycol 600	Meet the requirements
Viscosity(10% solutions, and 30℃) mm <sup>2</sup> /s	100-180	115
Mono-, di, and oligosaccharides(in glucose meter), w/%	≤10	0.45
Total Nitrogen	≤0.05	<0.05
Loss on drying	≤5.0	3.15
Transmittance(10% solution, 620nm)	--	96.0
Lead(Pb) mg/kg	≤1.0	<0.2
Heavy metals	≤5.0	<5.0
Ignition residue(Ash) w%	≤0.3	0.07
pH	4.5-6.5	5.20
Total plate count CFU/g	≤100	<20
Salmonella MPN/25g	Negative	Negative
Coliforms MPN/25g	Negative	Negative
Conclusion	The product is tested according to USP. And the results meet the standard.	

Analyst: Dr.LIAN

Checked by: LI

