



## Unilong Industry Co., Ltd

Add: No.8 Bldg Shuntai, No.2000 Shunhua Rd, High-Tech Zone, Jinan City, Shandong Province, China  
Contact: +86-15668417750 Website: [www.unilongindustry.com](http://www.unilongindustry.com)

### CERTIFICATE OF ANALYSIS

<b>Product Name:</b>	Cyclooctapentylose	<b>Batch No.</b>	JL20211025
<b>CAS</b>	17465-86-0	<b>MF Date</b>	OCT.25,2021
<b>Packing</b>	20kg/drum	<b>Analysis Date</b>	OCT.25,2021
<b>Quantity</b>	5MT	<b>Expiry Date</b>	OCT.24,2023
<b>Item</b>	<b>Standard</b>	<b>Result</b>	
<b>Appearance</b>	White or almost white, amorphous or crystalline powder.	White crystalline powder.	
<b>Assay</b>	98.0%~102.0%	99.8%	
<b>Solubility</b>	Freely soluble in water, practically insoluble in ethanol.	Conform	
<b>Optical rotation</b>	+174° ~+180°	+175°	
<b>pH</b>	5.0~8.0	6.4	
<b>Clarity and color of solution</b>	10mg/ml water solution is clear and colorless.	Conform	
<b>Limit of Light-absorbing Substances</b>	Between 230 and 350 nm, the absorbance is NMT 0.10, and between 350 and 750 nm, the absorbance is NMT 0.05.	Conform	
<b>Reducing Sugars</b>	≤0.5%	0.09%	
<b>Residue on Ignition</b>	≤0.1%	0.05%	
<b>Alpha cyclodextrin</b>	≤0.5%	Not detected	
<b>Betadex cyclodextrin</b>	≤0.5%	Not detected	
<b>Sum of other impurities</b>	≤0.5%	Not detected	



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<b>Loss on drying</b>	$\leq 11.0\%$	8.2%
<b>Heavy metal</b>	$\leq 10\text{ppm}$	$< 10\text{ppm}$
<b>TAMC</b>	$\leq 10^3\text{cfu/g}$	$< 10^3\text{cfu/g}$
<b>TYMC</b>	$\leq 10^3\text{cfu/g}$	$< 10^3\text{cfu/g}$
<b>Escherichia coli</b>	Absense	Not detected
<b>Conclusion</b>	Qualified	

**Analyst:** Wen Qian

**Quality Assurance Officer:** Zhan Peng

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