



# Unilong Industry Co., Ltd

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## CERTIFICATE OF ANALYSIS

<b>Product Name:</b>	HYDROXYPROPYL BETADEX	<b>Batch No.</b>	JL20230720
<b>Cas</b>	128446-35-5	<b>MF Date</b>	JUL . 20,2023
<b>Packing</b>	20KG/bag	<b>Analysis Date</b>	JUL . 20,2023
<b>Quantity</b>	1365kg	<b>Expiry Date</b>	JUL. 19 ,2024
<b>Item</b>	<b>Standard</b>	<b>Result</b>	
<b>appearance</b>	White or almost white, amorphous or crystalline powder. Freely soluble in water and in propylene glycol.	Conforms	
<b>Identification</b>	Same absorption bands as USP Hydroxypropyl Betadex RS	Conforms	
<b>Molar substitution</b>	0.40~1.50	0.70	
<b>Betadex</b>	≤1.5%	0.32%	
<b>Propylene glycol</b>	≤2.5%	0.07%	
<b>Any other single impurity</b>	≤0.25%	Not detected	
<b>Total impurities excluding betadex and propylene glycol</b>	≤1.0%	Not detected	
<b>Propylene oxide</b>	≤0.0001%	0.000004%	
<b>Loss on drying</b>	≤10.0%	3.4%	
<b>Clarity of solution</b>	1.0g/2ml water solution is clear and transparent	Conforms	
<b>Conductivity</b>	≤200 μ S/cm	77.1 μS/cm	
<b>The total aerobic microbial count</b>	≤103cfu/g	<10cfu/g	
<b>The total combined molds and yeasts count</b>	≤102cfu/g	<10cfu/g	
<b>Conclusion</b>	Compliant to the USP-NF2023.		

**Analyst: Wen Qian**

**Quality Assurance Officer: Zhan Peng**