

**CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	<b>D-mandelic acid</b>		
Batch no.	DM20200504B-3	Batch Size	500.0kg
Manufacture Date	May.04,2020	Report Date	May.04,2020
Retest Date	May.03,2022	Specification	ENTERPRISE
<b>Test Items</b>	<b>Specifications</b>	<b>Results</b>	
Appearance	White or off-white crystalline powder	Conform	
Identification			
Melt Point	+130.0°C ~ +135.0°C	Conform	
Water	0.5%Max	0.26%	
Specific Rotation $[\alpha]_D^{20}$	-153.0° ~ -157.5.0°	+107.11°	
Chiral Purity(ee)	99.0%Min	99.84%	
Other individual related compound	Not more than 0.1%	Conform	
Total impurities	Not more than 1.0%	Conform	
Assay	99.0%Min	99.69%	
Conclusion	Conforms to Enterprise Standard		

杭州思诺科生物医药有限公司  
HANGZHOU THINK CHEMICAL CO., LTD.

夏沛国

Prepared by:

Reviewed by:

Approved by: