

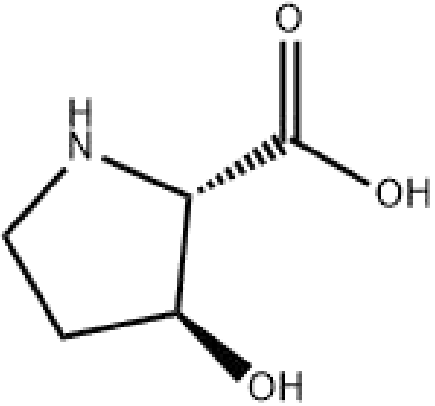


# Wuhan HengHeDa Pharm Co., Ltd

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Wuhan Economic& Technological Development Zone, Wuhan, China

## CERTIFICATE OF ANALYSIS

Product name	trans-3-Hydroxy-L-proline	
CAS NO	4298-08-2	
Molecular formula	C5H9NO3	
Molecular weight	131.13	
Quantity	100G	
Batch NO	HHD20210512	
Production date	2021.05.12	
Expiry Date	2023.05.11	
Test based on enterprise standard		
Test Item	Specification	Result
Appearance	White to off white powder	Conforms
Identification	The retention time of the peak for alpha lipoic acid in the chromatogram of the assay preparation corresponds to that in the chromatogram of the standard preparation, as obtained in the assay.	Conforms
HNMR	Conforms to structure	Conforms
LCMS	Conforms to MW	Conforms
Melting point	233-235° C	234-235° C
Specific rotation	The literature value	$[\alpha]_D^{20} = -18.6$ (c 1.0, H <sub>2</sub> O)

Purity(HPLC)	$\geq 98\%$	99.54%
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Storage	Store in cool & dry place, keep away from strong light and heat.	
Shelf life	2 years when properly stored.	
Conclusion: This product complies with above specification.		

Inspector  
Shen Wu

Director  
King Yang

