

# Shine Star (Hubei) Biological Engineering Co., Ltd.

Headquarters: No. 1 Yanjiang Road, Gong An, Jingzhou, Hubei, 434300 P. R. China  
Tel: +86-27 8578 6222 Fax: +86-27 8578 6555  
E-mail: sales@Shine-Star.com.cn www.Shine-Star.com.cn

## CERTIFICATE OF ANALYSIS

Product Name:	L-Histidine	CAS No.:	71-00-1
Quantity:	Sample	Manufacture Date:	Dec. 16, 2011
Batch No.:	6011165	Analysis Date:	Dec. 20, 2011
Quality Standard:	USP31	Expiry Date:	Dec. 15, 2013
Test Items	Limit	Result	
Appearance	white or almost white crystalline powder or colourless crystals	conform	
Identification	as per USP31	conform	
Specific rotation	+12.6° to +14.0°	+12.8°	
pH	7.0 to 8.5	7.7	
Loss on drying	not more than 0.2%	0.12%	
Residue on ignition	not more than 0.4%	0.04%	
Chloride	not more than 0.05%	<0.05%	
Sulfate	not more than 0.03%	<0.03%	
Iron	not more than 0.003%	<0.003%	
Heavy metals	not more than 0.0015%	<0.0015%	
Chromatographic purity	as per USP31	conform	
Residual solvents	as per USP31	conform	
Assay	98.5% to 101.5%	99.67%	
Conclusion: The products conform to USP31 standard.			
Analyst: 涂静 胡昌清 张冰 万东静		Verifier: 郭刚	
Storage: Preserve in well-closed containers and protected from light			