

## Hangzhou Tianye chemicals Co., Ltd.

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### CETIFICATE OF ANALYSIS

PO:			
Item name:	L-Serine Methyl Ester HCl		
CAS NO:	5680-80-8	Quantity:	
Lot No.:	TY20251103	Packing:	
Date of inspection:	Nov.06.2025		
Items	Specification	Result	
Appearance	White or off-white crystalline powder.	Conform	
Specific rotation $[\alpha]_D^{20}$	+4.5°~+6.5°(C=1,Methanol)	+5.5°	
Loss on drying	≤0.50%	0.14%	
Purity (HPLC)	≥98.0%	99.60%	
Free amino acids	≤0.2%	Conforms	
Conclusion	This product complies with enterprise standard.		

Inspected by: Zhang xiaodong

Hangzhou Tianye Chemicals Co., Ltd.  
杭州添叶化工有限公司

Confirmed by: Xian  
Youliang