

## **CERTIFICATE OF ANALYSIS**

Product Name:	Fmoc-Ala-OH	Lot No.	200308-M35089
CAS No.:	35661-39-3	Store at:	Cool dry place ( $\leq 25^{\circ}\text{C}$ )
Molecular Formula:	$\text{C}_{18}\text{H}_{17}\text{NO}_4$	Molecular Weight:	311.3
Manufacturing Date:	2020-3-8	Retest Date:	2022-3-8

Tests	Specifications	Results
Appearance	White powder	Complies
Purity(HPLC)	$\geq 99\%$	99.76%
Optical Purity	$\leq 0.3\%$ D-enantiomer	0.0779%
TLC	$\geq 98\%$	>98%
Element analysis(C、H、N)	$\leq 5.0\%$	<5.0%
Melting Point	147-157°C	151.2-152.4°C
Specific Rotation $[\alpha]_{\text{D}}^{20}$	$-18^{\circ} \pm 2.5^{\circ}$ (C=1 in DMF)	$-17.2^{\circ}$ (C=1 in DMF)
Clarity of solution	0.3 gram in 2ml DMF clear solution	Complies
Kaiser Test	<0.05%	<0.05%
Water Content(K.F.)	$\leq 6.0\%$	5.64%
Loss on drying	$\leq 2.0\%$ (60°C, 2h)	0.16%
IR Spectrum	In accordance with the structure	Complies
Mass Spectrum	In accordance with the structure	Complies
NMR Spectrum	In accordance with the structure	Complies