



Certificate of Analysis

Product Name	Tryptophan	Manufacture Date	Mar.13.2023
Batch Number	SW230313	Analysis Date	Mar.14.2023
Batch Quantity	100kg	Expiry Date	Mar.13.2025

ANALYSIS	SPECIFICATION	RESULT
Appearance	White to yellow-white powder	Conform
Loss on Drying	$\leq 0.2\%$	0.36%
Residue on Ignition	$\leq 0.10\%$	0.07%
Heavy Metals	$\leq$ Ten parts per million	$<10\text{ppm}$
Burning residue	$\leq 0.1\%$	Conform
Melting Point	289-290 °C (dec.)(lit.)	290°C
Pb	$\leq 5\text{ ppm}$	Conform
Hg	$\leq 0.3\text{ ppm}$	Conform
Cd	$\leq 1\text{ ppm}$	Conform
Ba	$\leq 50\text{ ppm}$	Conform
Cr	$\leq 2\text{ ppm}$	Conform
Mn	$\leq 2\text{ ppm}$	Conform
Ni	$\leq 5\text{ ppm}$	Conform
Cu	$\leq 5\text{ ppm}$	Conform
Zn	$\leq 25\text{ ppm}$	Conform
Fe	$\leq 50\text{ ppm}$	Conform
Assay	99.0%	99.45%

Packing description	Sealed export grade drum & double of sealed plastic bag
Storage	Store in a cool and dry place, stay away from strong light and heat
Shelf life	2 years when properly stored

Quality Assurance Officer: 李强

Corrector: 佟丽华

Analyst: 方媛

