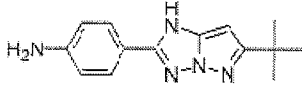




上海遐瑞医药科技有限公司

SHANGHAI T&W PHARMACEUTICAL CO., LTD.

CERTIFICATE OF ANALYSIS

Product Name	4-(6-tert-Butyl-5H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-aniline		
CAS No.	158282-25-6	Structure	
Molecular Formula	C ₁₂ H ₁₁ N ₅		
Batch No.	TW20160720		
Quantity	1kg		
Mfg. Date	July. 20 th . 2016		
Test Date	July. 21 th . 2016		
Retest Date	July. 20 th . 2017		

Test Item	Specification	Result
Appearance by visual examination	White to off-white solid powder	Light yellow solid powder
Identity by ¹ H-NMR (Solvent:DMSO-d ₆)	Reference to raw data	Complies
Identity by LC-MS	Exact mass: 255.15	[M+H] ⁺ =256.11
Purity by HPLC (Area nominalization)	Min 97.0% (A)	99.20%
The Maximum Related substance (Chromatographic purity)	Max 0.5% (A)	0.34%
Profile TLC	Monospot	Complies
Integrated spectral absorptivity	Cyan (600-700 nm): Max 0.05 L.nm/g.cm	0.0001
	Magenta (500-600 nm): Max 0.05 L.nm/g.cm	0.0013
	Yellow (400-500 nm): Max 0.10 L.nm/g.cm	0.028
	Total integral (350-800 nm): Max 0.35 L.nm/g.cm	0.019
Volatile matter	Max 1.0% (w/w)	0.49%



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Water (Volumetric Karl Fisher)	Max 1.0% (w/w)	0.43%
Melting point	For information	254.2-255.1 °C
Palladium residue	Max 10 ppm	1.6 ppm
Aluminum residue	Max 5 ppm	Not detected
Chromium residue	Max 5 ppm	Not detected
Iron residue	Max 10 ppm	Not detected
Nickel residue	Max 10 ppm	Not detected
Zinc residue	Max 5 ppm	Not detected
Conclusion	Comply with the company internal standard	



Analyst:

Joann Cheng

Checker:

Tony He

Approver:

Shaoping Peng