

## Certificate of Analysis

Date of Testing:	2023-08-31 16:42:00
Date of Next Testing:	2026-08-30 16:42:00
Product Name:	<b>Imidazole</b>
CAS Number:	288-32-4
Specifications & Purity:	For pharmaceutical intermediates, ACS
Lot #:	H2329111
SKU #	<b>I432546</b>
<b>Analysis:</b>	<b>227924</b>
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Assay(Titration by HClO <sub>4</sub> )	99-102.5 (%)	100.00 %
PH	9.5-11	10.10
Melting point	88-92 (°C)	91.26000 °C
Chloride	0-0.05 (%)	0.00 %
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-0.03 (%)	0.00 %
Iron(Fe)	0-10 (ppm)	0.00 ppm
Residue on Ignition	0-0.1 (%)	0.00000 %
Water(KF,volumetric)	0-0.2 (%)	0.19790 %
Bacterial endotoxins	0-100 (EU/g)	1.06 EU/g
1-Methylimidazole	0-0.3 (%)	0.00000 %
2-Methylimidazole	0-0.3 (%)	0.00000 %
4-Methylimidazole	0-0.3 (%)	0.00000 %
1-Methoxymethylimidazole	0-0.3 (%)	0.00000 %
Microbial Count(TAMC)	0-100 (cfu/ml)	42.00000 cfu/ml
Microbial Count(TYMC)	0-100 (cfu/ml)	61.00000 cfu/ml
Ethanol	0-1500 (ppm)	0.00000 ppm
2-Propanol	0-500 (ppm)	0.00000 ppm
tert-Butyl methyl ether	0-4000 (ppm)	0.00000 ppm
Appearance(I432546)	White to Yellowish Solid	White to Yellowish Solid
Infrared spectrum	Conforms to Structure	Conforms to Structure



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ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager