



## CERTIFICATE OF ANALYSIS

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### 1. Identification

<b>Catalogue Number:</b>	M325751	<b>CAS Number:</b>	764661-24-7
<b>Product:</b>	4-(Methylnitrosamino)-1-(3-pyridyl-d4)-1-butanone-d4	<b>Synonym:</b>	4-(N-Methyl-N-nitrosamino)-1-(3-pyridyl-d4)-1-butanone; NNK-d4;
<b>Structure:</b>		<b>Molecular Formula:</b>	$C_{10}H_{9}D_4N_3O_2$
		<b>Molecular weight:</b>	211.25
		<b>Source of Product:</b>	Synthetic
		<b>Solubility:</b>	Acetonitrile (Slightly), Chloroform (Slightly), Ethyl Acetate (Slightly)
<b>Lot Number:</b>	11-RIT-162-2	<b>Purity:</b>	97%
<b>Shipping Condition:</b>	This Product Is Stable To Be Shipped At Room Temperature	<b>Storage Condition:</b>	-20°C

### 2. Warning

**Warning 1:** **Warning 2:** **Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Off-White to Light Brown Solid	Off-White to Pale Yellow Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 56.88, %H: 6.29, %N: 19.84
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.8% (d0 = 0.01%)
HPLC Purity	Report Result	100.00% (230 nm)

**Additional Information:** N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm 2\%$ . Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Meenakshi Sharma	Toni Rantanen	Chanell Chu	10/1/2021	9/29/2025