



## CERTIFICATE OF ANALYSIS

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### 1. Identification

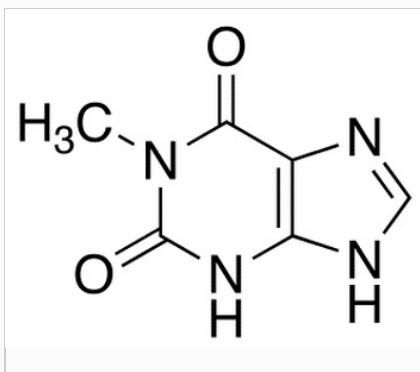
**Catalogue Number:** M338575

**CAS Number:** 6136-37-4

**Product:** 1-Methyl Xanthine

**Synonym:** 3,9-Dihydro-1-methyl-1H-purine-2,6-dione;  
2,6-Dihydroxy-1-methylpurine; 1-Methylxanthine; 1-MX;

**Structure:**



**Molecular Formula:**

C<sub>6</sub>H<sub>6</sub>N<sub>4</sub>O<sub>2</sub>

**Molecular weight:**

166.14

**Source of Product:**

Synthetic

**Solubility:**

Aqueous Base (Slightly),  
DMSO (Slightly)

**Lot Number:** 3-JAB-27-2

**Purity:** 95%

**Shipping Condition:** This Product Is Stable To Be  
Shipped At Room Temperature

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Pale Yellow to Dark Yellow Solid	Pale Yellow to Dark Yellow Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	97.52% (270 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 ± 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
Sarbjit Kaur	Toni Rantanen	Chanell Chu	12/6/2023	12/4/2027
				