



## CERTIFICATE OF ANALYSIS

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### 1. Identification

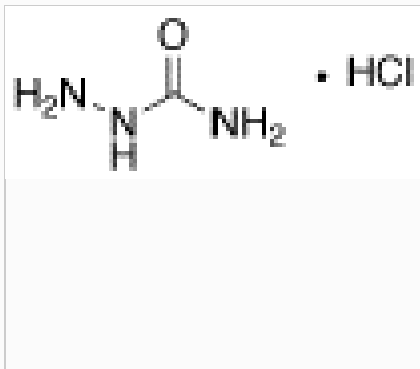
**Catalogue Number:** S258200

**CAS Number:** 563-41-7

**Product:** Semicarbazide Hydrochloride

**Synonym:** Hydrazinecarboxamide Monohydrochloride; Aminourea Hydrochloride; Semicarbazide Chloride; SEM

**Structure:**



**Molecular Formula:**

CH<sub>5</sub>N<sub>3</sub>O • HCl

**Molecular weight:**

75.07+ (36.46)

**Source of Product:**

Synthetic

**Solubility:**

DMSO (Soluble), Methanol (Slightly)

**Lot Number:** 3-SXG-98-1

**Purity:** 97%

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

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:** Hygroscopic

**Warning 2:** Toxic

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Chloride Content	Report Result	31.9%
Appearance	White to Off-White Solid	White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 10.80, %H: 5.36, %N: 37.65
MS	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms

#### Additional Information:

TLC Conditions: C18; Methanol : Water = 9 : 1; Visualized with AMCS; Single Spot, R<sub>f</sub> = 0.75. Elemental Analysis: (Theoretical) %C: 10.77, %H: 5.42, %N: 37.68

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
Neha Khanna	Toni Rantanen	My Nguyen	12/5/2019	12/3/2029