	<b>INNOVA PHARMACTIVE PVT. LTD.</b>		<b>MASTER COPY</b>	
	<b>TEST DATA SHEET</b>			Authorized By /
	Specification No.	IP/QCD/RMS/003 (Revision No. 10)		Date : 12/04/2024
Product Name	Ammonium Thiocyanate			Issued By /
Batch No.	1212025-26			Date : 20/09/2025
A.R.No.	QR25137			Page No. 1 of 8

• Test Summary Report:


Sampling Date	20/09/2025	Date of Mfg.	09/09/2025
Release Date	22/09/2025	Date of Retest/Expiry	08/09/2026

Sr. No.	Test	Specification	Result
1	Description (*#)	Colorless to White Crystalline solid.	Colorless to white crystalline solid.
2	Solubility (*)	Very soluble in water, Freely soluble in alcohol (96% Ethanol), practically insoluble in ethyl acetate.	Complies
3	Identification Test (*#)		
	A) Melting point	Between 145°C - 155°C	147.2°C
	B) Thiocynate Test	Red colour not disappears.	Complies
4	Assay (*)	Not Less Than 97.0%	98.76%
5	pH (*)	4.5-6.0	5.16
6	Limit Test For chloride	Any opalescence produced in test solution should not more intense than standard solution.	Complies
7	Limit Test For Heavy metal	Any opalescence produced in test solution should not more intense than standard solution.	Complies
8	Residue on ignition	Not More Than 0.025%	0.02%

**Remark** : The sample Complies / Does not complies as per the specification No. IP/QCD/RMS/003

Tested By/Date	Reviewed By/Date	Approved By/Date
M. J. Daniel 21/09/2025	22/09/2025	22/09/2025



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Product Name	Ammonium Thiocyanate			Issued By /
Batch No.	1212025-26			Date : 20/09/2025
A.R.No.	2025132			Page No. 2 of 8

# 1.0 Description(\*#):

Date : 21/09/2025

Balance No.: IP/QCD/ELB/054

Observation:

Bag Number	Weight of Sample (g)	Observation	Result
1	3.2956g	Colorless to white crystalline solid	Complies
2	3.1726g	Colorless to white crystalline solid	Complies
3	3.1604g	Colorless to white crystalline solid	Complies
4	3.3385g	Colorless to white crystalline solid	Complies
5	3.2952g	Colorless to white crystalline solid	Complies
6	3.4848g	Colorless to white crystalline solid	Complies
7	3.1493g	Colorless to white crystalline solid	Complies
Composite	3.4507g	Colorless to white crystalline solid	Complies
N/A			

(Complies / Not Complies)


Tested By/Date: M. N. G. M. 21/09/2025

Reviewed By/Date: 22/09/2025

IP/QAD/SOP/010/F03.01





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	Specification No.	IP/QCD/RMS/003 (Revision No. 10)		Date : 12/04/2024
Product Name	Ammonium Thiocyanate			Issued By /
Batch No.	12/2025-26			Date : 20/09/2025
A.R.No.	2225127			Page No. 3 of 8

## 2.0 Solubility(\*):

Date : 21/09/2025

Balance No.:

IP/QCD/ELB/031

Observation :

Sr. No.	Sample Quantity (g)	Solvent Quantity (ml)	Solvent used	Observation
1	1.0021g	1ml	Water	very soluble
2	1.0012g	10ml	Alcohol (96% ethanol)	Easily soluble
3	0.1010g	10ml	Ethyl Acetate	Practically insoluble

(Complies / Not Complies)

Tested By/Date: M. N. N. 21/09/2025

Reviewed By/Date: 22/09/2025

## 3.0 Identification test(\*#):

### A) Melting Point:

Date : 21/09/2025

Instrument No.: IP/QCD/MPA/ 068

Bag Number	Observation	Result
1	142.1°C	Complies
2	147.2°C	Complies
3	142.2°C	Complies
4	144.1°C	Complies
5	142.1°C	Complies
6	142.2°C	Complies
7	142.1°C	Complies
Composite	142.2°C	Complies












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	<b>TEST DATA SHEET</b>			Authorized By / Date : <u>12/04/2024</u>	
	Specification No.	IP/QCD/RMS/003 (Revision No. 10)			
Product Name	Ammonium Thiocyanate			Issued By / Date : <u>20/09/2025</u>	
Batch No.	<u>12,27526</u>				
A.R.No.	<u>2225137</u>			Page No. 6 of 8	

Normality of 0.1N Silver Nitrate: <u>0.10372</u>	Volume of 0.1 N AgNO <sub>3</sub> : <u>NA</u>
Burette Reading <u>NA</u>	

### 0.1N Ammonium Thiocyanate Solution (0.1N NH<sub>4</sub>SCN):

Date of preparation: <u>21/09/2025</u>	Expiry: <u>21/10/2025</u>
Batch No of solution: <u>2V-061250921</u>	

### Standardization/Re-Standardization Result:

Name of volumetric solution : 0.1N Ammonium Thiocyanate	Date of Preparation: <u>21/09/2025</u>
Batch no. of 0.1N Ammonium Thiocyanate: <u>2V-061250921</u>	Date of standardization / Re-Standardization: <u>21/09/2025</u>
Normality of 0.1N Ammonium Thiocyanate: <u>0.1041N</u>	Volume of 0.1N Ammonium Thiocyanate: <u>NA</u>
Burette Reading <u>NA</u>	

### Observation:

#### For Assay:

Weight of Sample : <u>7.0006g</u>	Burette Reading : <u>5.9 ml</u>
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#### Formula:

$$\begin{aligned} \% \text{NH}_4\text{SCN} &= \frac{[(50\text{ml} \times 0.1 \text{ N AgNO}_3) - (x \text{ ml} \times 0.1 \text{ N NH}_4\text{SCN})] \times 1000 \times 0.007612}{(\text{Wt}) \text{ Weight of sample} \times 50 \times 0.1} \times 100 \\ \% \text{NH}_4\text{SCN} &= \frac{[(50\text{ml} \times \text{N AgNO}_3) - (x \text{ ml} \times \text{N NH}_4\text{SCN})] \times 20 \times 7.612}{(\text{Wt}) \text{ Weight of sample}} \\ &= \frac{(50 \times 0.1037) - (5.9 \times 0.1041) \times 1000 \times 0.007612 \times 100}{7.0006 \times 50 \times 0.1} \\ &= \underline{98.755\% = 98.76\%} \end{aligned}$$

(Complies / Not Complies)

Tested By/Date: M.S. Kulkarni  
5.0 pH(\*): 21/09/2025

Reviewed By/Date: 22/09/2025

Date : 21/09/2025

Balance No.: IP/QCD/ELB/054  
Instrument No.: IP/QCD/PHM/067

Weight of Sample: 5.0025g

Results: 5.76

(Complies / Not Complies)

Tested By/Date: M.S. Kulkarni  
6.0 Limit Test For Chloride: 21/09/2025

Reviewed By/Date: 22/09/2025

Date : 21/09/2025


Balance No.: IP/QCD/ELB/054

0.1N Silver Nitrate Solution:

IP/QAD/SOP/010/F03.01





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Product Name	Ammonium Thiocyanate			Issued By /
Batch No.	1212025-27			Date : 20/09/2025
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Date of preparation: 12/09/2025	Expiry: 11/10/2025
Batch No of solution: QV-03725012	

**Test solution:**

**Weight of sample:** 1.0020g

**Observation :** opalescence produced in test solution not more intense than standard solution

(Complies / Not Complies)

Tested By/Date: M. N. G. / 21/09/2025

Reviewed By/Date: 22/09/2025

#### 7.0 Limit test for Heavy metal:

Date : 21/09/2025

Balance No.: IP/QCD/ELB/054

**Preparation of Lead Nitrate stock solution :**

Date of preparation: 10/07/2025	Expiry: 10/10/2025
Batch No of solution: Q2-261250710	

**Preparation of Standard Lead Nitrate solution (50ppm) :**

Date of preparation: 21/09/2025	Expiry: NA
Batch No of solution: NA	

**Preparation of pH 3.5 Acetate buffer :**

Date of preparation: 10/07/2025	Expiry: 10/10/2025
Batch No of solution: Q2-231250710	

**Preparation of thioacetamide solution:**

Date of preparation: 10/07/2025	Expiry: 10/10/2025
Batch No of solution: Q2-261250710	

**Preparation of glycerin base solution:**

Date of preparation: 19/08/2025	Expiry: 19/11/2025
Batch No of solution: Q2-511250819	

**Test Preparation :**

**Weight of sample:** 2.0032g


**Observation :** opalescence produced in test solution not more intense than standard solution.

(Complies / Not Complies)

Tested By/Date: M. N. G. / 21/09/2025

Reviewed By/Date: 22/09/2025



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	Specification No.	IP/QCD/RMS/003 (Revision No. 10)		Date : <u>21/09/2025</u>
Product Name	Ammonium Thiocyanate			Issued By / <u>[Signature]</u>
Batch No.	<u>1212025-26</u>			Date : <u>20/09/2025</u>
A.R.No.	<u>2225133</u>			Page No. 8 of 8

### 8.0 Residue on ignition:

Date : 21/09/2025

Balance No.:

IP/QCD/ELB/055

Instrument No.:

IP/QCD/MUF/002

- Wt of Empty crucible - 35.0592 g
- Wt. of sample - 1.0022 g
- Weight of crucible with sample- 36.0621 g
- Amount of Sulphuric Acid for charring - 1 ml
- Amount of Sulphuric Acid after charring - NA
- Wt of crucible after H<sub>2</sub>SO<sub>4</sub> ignition - 35.0601 g
- If additional amount of Sulphuric acid required - NA
- Wt. of crucible after H<sub>2</sub>SO<sub>4</sub> ignition by adding additional amount of H<sub>2</sub>SO<sub>4</sub> - NA

#### Formula:

% Residue on ignition=

$$= \frac{(\text{Wt. of crucible after H}_2\text{SO}_4 \text{ ignition}) - (\text{Wt of empty crucible})}{(\text{Wt. of sample})} \times 100$$

$$= \frac{35.0601 - 35.0592}{1.0022} \times 100$$

$$= 0.019 = 0.02\%$$

(Complies / Not Complies)

Tested By/Date: [Signature]  
21/09/2025

Reviewed By/Date: [Signature]  
22/09/2025

Raw data are attached with the Test Data Sheet. If applicable.

Comment:

NA

**Conclusion:** The above sample Complies / Does not complies with the tests as per Specification No. IP/QCD/RMS/003.

Approved By : [Signature]

Date :

22/09/2025