

**NITROGEN- nitrogen gas**  
**Messer LLC**

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**Nitrogen NF Bulk Liquid**

Plant

123 Messer St, Anytown, USA

Certificate of Analysis - Stall 1

Product: Nitrogen NF

Date: 10/27/2025

Lot#: 5138-1-1992-102725-04

Tare Weight: 31800 lbs.

Gross Weight: 48500 lbs.

Net Weight: 16700 lbs.

Net Volume: 230.51 kscf

Batch #: AIT-81-6-102725-01

Logon Time: 2025-10-27 11:17:42

Analysis Finish: 2025-10-27 11:30:18

Logoff Time: 2025-10-27 11:31:57

Final Analysis Results

Analyzer # Test/Units LIN1 Specs Analysis Results Limit of Detection

Organoleptic Odor None None

AIT-81-6 PPM O<sub>2</sub> ≤ 5.00 1.14 0.10

AIT-81-2 PPM CO ≤ 10.00 0.35 0.10

LAB PPM CO<sub>2</sub> N/A NT 0.10

AIT-81-4A PPM H<sub>2</sub>O N/A NT 0.10

AIT-80-2A PPM THC N/A NT 0.10

LAB PPM H<sub>2</sub> N/A NT 0.20

Assay Results (by difference) Nitrogen Min % ≥ 99.0 (Messer Spec ≥ 99.999%)

99.99985

NT = Not Tested

PPM O<sub>2</sub> Method Used: Electrochemical Manufacturer/Model#: Teledyne 3000TA-XL

PPM CO Method Used: Infrared Manufacturer/Model#: Siemens Ultramat 6

These analyzers have been validated by Messer as acceptable alternatives to the official NF for Nitrogen Assay. Validation study documentation is maintained by Messer at the corporate office. LIN NDA: 205766, LIN NADA: 14136

This document contains an electronic signature.

Analyst Date

Sample Results Obtained from Messer Validated Analyzers 10/27/2025

Quality Reviewer Date

John Doe 10/27/2025

Should the material not be delivered to an NF customer, the material is "Not Approved for Human Drug Use"

LOX1

## Plant

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**LOX1**

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## NITROGEN

nitrogen gas

### Product Information

<b>Product Type</b>	PRESCRIPTION ANIMAL DRUG	<b>Item Code (Source)</b>	NDC:52438-916
<b>Route of Administration</b>	RESPIRATORY (INHALATION)		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>NITROGEN</b> (UNII: N762921K75) (NITROGEN - UNII:N762921K75)	NITROGEN	995 mL in 1 L

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:52438-916-20	25000 L in 1 TANK		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NADA	NADA141364	01/01/1960	

## Labeler - Messer LLC (001368141)

### Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		943812438	manufacture, api manufacture

### Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		026946218	manufacture, api manufacture

### Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		041268947	manufacture, api manufacture

### Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		101889988	manufacture, api manufacture

### Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		003000197	manufacture, api manufacture

### Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		081695020	manufacture, api manufacture

### Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		872699181	manufacture, api manufacture

### Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		002123321	manufacture, api manufacture

### Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		092191712	manufacture, api manufacture

### Establishment

Name	Address	ID/FEI	Business Operations
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Messer LLC		839692303	manufacture, api manufacture
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## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		791242337	manufacture, api manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		192602431	manufacture, api manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		945417111	manufacture, api manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		042263707	manufacture, api manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		147344667	manufacture, api manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		102835006	manufacture, api manufacture

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Name	Address	ID/FEI	Business Operations
Messer LLC		940070527	manufacture, api manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		969312248	manufacture, api manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		004212362	manufacture, api manufacture

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Name	Address	ID/FEI	Business Operations
Messer LLC		019983468	manufacture, api manufacture

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Name	Address	ID/FEI	Business Operations
Messer LLC		799311001	manufacture, api manufacture

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Name	Address	ID/FEI	Business Operations
Messer LLC		079481211	manufacture, api manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		809794592	manufacture, api manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		108034669	manufacture, api manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		093220150	manufacture, api manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Messer LLC		119239875	manufacture, api manufacture

Revised: 11/2025

Messer LLC