

## **Scientific Documentation**

## D-Galactose, NF, EP, bioCERTIFIED (TM)

Not appropriate for regulatory submission.

Please visit www.spectrumchemical.com or contact Tech Services for the most up-to-date information contained in this information package.

Spectrum Chemical Mfg Corp 769 Jersey Avenue New Brunswick, NJ 08901 Phone 732.214.1300





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# Specification for D-Galactose, NF, EP, bioCERTIFIED (TM) (G9405)

Item Number	G9405
Item	D-Galactose, NF, EP, bioCERTIFIED (TM)
CAS Number	59-23-4
Molecular Formula	$C_6H_{12}O_6$
Molecular Weight	180.16
MDL Number	
Synonyms	

Test	Specification		
	Min	Max	
Assay (Anhydrous Basis) (NF)	98.0	102.0 %	
Specific Rotation (NF)	+78.0° to +81.5°		
ACIDITY OR ALKALINITY (EP)	TO PASS TEST		
Acidity (NF)	TO PASS TEST		
Appearance of Solution (NF)	TO PASS TEST		
Water Determination (NF & EP)		1.0 %	
RESIDUE ON IGNITION (NF)		0.1 %	
SULFATED ASH (EP)		0.1 %	
Proteins (EP)	TO PASS TEST		
RELATED SUBSTANCES (EP):			
Sum of Impurities A and B		1.0 %	
UNSPECIFIED IMPURITIES, each		0.3 %	
TOTAL IMPURITIES			
Related Substances (NF):			
Lactose and 1,6-galactosylgalactose		0.6 %	
Galactouronic Acid		0.6 %	
DEXTROSE		0.6 %	
Tagatose		0.6 %	
Dulcitol		0.6 %	

Test	Specificat	tion
	Min	Max
Arabinose		0.6 %
ANY UNSPECIFIED IMPURITY		0.2 %
TOTAL IMPURITIES.		1.0 %
Barium (NF)	TO PASS TEST	
Lead (NF)		0.5 ug/g
LOSS ON DRYING		1.0 %
ELEMENTAL IMPURITIES	AS REPORTED	
MICROBIAL LIMITS:		
BACTERIAL ENDOTOXINS		25 EU/g
TOTAL AEROBIC MICROBIAL COUNT		100 CFU/g
IDENTIFICATION	TO PASS TEST	
APPEARANCE	TO PASS TEST	
EXPIRATION DATE		
DATE OF MANUFACTURE		
RESIDUAL SOLVENTS	AS REPORTED	

#### Spectrum Chemical Mfg Corp

Corporate Headquarters:West Coast Facility:769 Jersey Ave.14422 S. San Pedro St.New Brunswick, NJ 08901Gardena, CA 90248

732.214.1300 310.516.8000



## **Certificate Of Analysis**

Item Number	G9405	Lot Number	4LL0025
Item	D-Galactose, NF, EP, bioCERTIFIED (TM)	CAS Number	59-23-4
Molecular Formula	$C_6H_{12}O_6$	Molecular Weight	180.16

TECT	SPECIFICATION		DECLUT.
TEST	MIN	MAX	RESULT
Assay (Anhydrous Basis) (NF)	98.0	102.0 %	100.5 %
Specific Rotation (NF)	+78.0° to +81.5°		+80.60°
ACIDITY OR ALKALINITY (EP)	TO PASS TEST		PASSES TEST
Acidity (NF)	TO PASS TEST		PASSES TEST
Appearance of Solution (NF)	TO PASS TEST		PASSES TEST
Water Determination (NF & EP)		1.0 %	0.122 %
RESIDUE ON IGNITION (NF)		0.1 %	0.1 %
SULFATED ASH (EP)		0.1 %	0.1 %
Proteins (EP)	TO PASS TEST		PASSES TEST
RELATED SUBSTANCES (EP):			
Sum of Impurities A and B		1.0 %	0.0 %
UNSPECIFIED IMPURITIES, each		0.3 %	0.0 %
TOTAL IMPURITIES			
Related Substances (NF):			
Lactose and 1,6-galactosylgalactose		0.6 %	0.0 %
Galactouronic Acid		0.6 %	0.0 %
DEXTROSE		0.6 %	0.0 %
Tagatose		0.6 %	0.0 %
Dulcitol		0.6 %	0.0 %
Arabinose		0.6 %	0.0 %
ANY UNSPECIFIED IMPURITY		0.2 %	0.0 %
TOTAL IMPURITIES.		1.0 %	
Barium (NF)	TO PASS TEST		PASSES TEST
Lead (NF)		0.5 ug/g	<0.05 ug/g
LOSS ON DRYING		1.0 %	0.1 %

TECT	SPECIFICATION		DECLUIT.
TEST	MIN	MAX	RESULT
ELEMENTAL IMPURITIES	AS REPORTED		COMPLIES WITH STANDARD
MICROBIAL LIMITS:			
BACTERIAL ENDOTOXINS		25 EU/g	<0.5 EU/g
TOTAL AEROBIC MICROBIAL COUNT		100 CFU/g	<10 CFU/g
IDENTIFICATION	TO PASS TEST		PASSES TEST
APPEARANCE	TO PASS TEST		PASSES TEST
EXPIRATION DATE			06-SEP-2023
DATE OF MANUFACTURE			07-SEP-2021
RESIDUAL SOLVENTS	AS REPORTED		
CLASS 2 (SOLVENT) / METHANOL			<3000 ppm
IDENTIFICATION B			RETENTION TIME CORRESPONDS TO STANDARD

Certificate of Analysis Results Entered By:

KMORALES Keyla Morales 12-APR-23 08:47:12

Spectrum Chemical Mfg Corp 777 Jersey Avenue New Brunswick 08901 NJ



Certificate of Analysis Results Approved By:

AWILLIAMS Allison Williams 12-APR-23 14:15:13

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.





Revision date 14-December-2022 Revision Number 1

#### 1. Identification

**Product identifier** 

Product Name D-GALACTOSE, NF, EP, bioCERTIFIED™

Other means of identification

Product Code(s) G9405

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use No information available

Restrictions on use No information available

Details of the supplier of the safety data sheet

**Supplier Address** 

Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

#### 2. Hazard(s) identification

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

#### Hazard statements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Crystalline powder Physical state Solid Odor No information available

#### Other information

No information available.

#### 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%
D-Galactose	59-23-4	100

#### 4. First-aid measures

#### **Description of first aid measures**

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water.

Clean mouth with water and drink afterwards plenty of water. Ingestion

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

#### 5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

CAUTION: Use of water spray when fighting fire may be inefficient. Large Fire

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

Sensitivity to mechanical impact none.

Sensitivity to static discharge none.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Personal precautions

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

#### 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

#### 8. Exposure controls/personal protection

Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection**No special protective equipment required.

**Respiratory protection**No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

#### 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid

Appearance Crystalline powder White Off-white

Odor No information available
Odor threshold No information available

Remarks • Method **Property** Values

no data available pН None known 164 °C / 327.2 °F Melting point / freezing point None known Boiling point / boiling range no data available None known Flash point no data available None known **Evaporation rate** no data available None known Flammability (solid, gas) no data available None known None known

Flammability Limit in Air

Upper flammability or explosive No data available limits

Lower flammability or explosive No data available

limits

Vapor pressure No data available None known Vapor density no data available None known Relative density no data available None known Water solubility Soluble in water None known Solubility(ies) no data available None known No data available None known **Partition coefficient Autoignition temperature** no data available None known **Decomposition temperature** None known

Kinematic viscosity no data available None known Dynamic viscosity No data available None known

Other information

**Explosive properties** No information available **Oxidizing properties** No information available No information available Softening point

Molecular weight 180.16

No information available **VOC Content (%) Liquid Density** No information available **Bulk density** No information available

#### 10. Stability and reactivity

Possibility of hazardous reactions

Reactivity No information available.

Stable under normal conditions. Chemical stability

Conditions to avoid None known based on information supplied.

None known based on information supplied. Incompatible materials

Hazardous decomposition products None known based on information supplied.

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation Specific test data for the substance or mixture is not available.

None under normal processing.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

No information available. **Symptoms** 

#### **Acute toxicity**

#### **Numerical measures of toxicity**

No information available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Germ cell mutagenicity No information available. No information available. No information available. No information available.

Reproductive toxicity No information available.

STOT - single exposure STOT - repeated exposure Aspiration hazard No information available. No information available. No information available.

Other adverse effects No information available.

Interactive effects No information available.

#### 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Persistence and degradability

**Bioaccumulation** 

No information available. Inherently biodegradable.

Other adverse effects No information available.

#### 13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

#### 14. Transport information

**DOT** not regulated

TDG not regulated

MEX not regulated

ICAO (air) not regulated

IATA not regulated

**IMDG** not regulated

RID not regulated

not regulated ADR

ADN not regulated

#### 15. Regulatory information

#### **International Inventories**

Complies **TSCA** 

DSL/NDSL Complies **EINECS/ELINCS** Complies

**ENCS** This product complies with ENCS: This product complies with China: **IECSC** 

Complies **KECL** Complies **PICCS** 

**AICS** All the constituents of this material are listed on the Australian Inventory of Chemical

Substances (AICS).

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. EPA Label Information

#### 16. Other information

**NFPA** 

Health hazards 0 Flammability 0 Instability 0

Physical and chemical properties -

**HMIS** 

Health hazards 0 Flammability 0 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

**Revision date** 14-December-2022 **Revision Note** No information available.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 



# Certification of Compliance with current Good Manufacturing Practices

Dear Valued Customer:

Spectrum Chemical Mfg Corp certifies that the following product(s) is produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

Catalog Number	Product Name	
G9405	D-Galactose, NF, EP, bioCERTIFIED ™	

Spectrum is an FDA registered and inspected Drug Establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: 2020632 Spectrum-New Brunswick, NJ: 2246824

Thank you for your interest in Spectrum products. If we may be of further assistance, please feel free to contact the Quality Assurance department at 310-516-8000 or via email at qualityassurance@spectrumchemical.com

Sincerely,
Quality Assurance
Spectrum Chemical Mfg. Corp.

This document has been produced electronically and is valid without a signature.



# Manufacturing Process Flowchart - D-Galactose, NF, EP, bioCERTIFIED ™ (Cat# G9405)

# Dissolution Filtration Hydrolysis Neutralization De-coloration Filtration Purification Crystallization Centrifugation Centrifugation The coloration Crystallization Centrifugation Centrifugation Centrifugation Dissolution

De-coloration Ultrafiltration Crystallization Centrifugation

Drying Packaging

Finished Product: D- (+)-Galactose



## G9405, D-Galactose, NF, EP, bioCERTIFIED TM

#### Source Statement

The above-mentioned catalog item is manufactured by from plant derived material (Peach Gum powder). No animal or derived products are used in the manufacturing process.

#### **BSE/TSE Statement**

The above-mentioned catalog item does not contain nor is manufactured using any animal derived products and is therefore BSE/TSE free.

#### Allergen Statement

The above-mentioned catalog item does not contain any of the following:

- Milk
- Egg
- Fish
- Shellfish
- Tree Nuts
- Wheat
- Peanuts
- Soy

- Cereals containing Gluten
- Celery
- Mustard
- Sesame Seed
- Corn
- Latex
- Sulfites > 10 ppm

#### **EU Fragrance Allergen Statement**

The above-mentioned catalog item does not contain any of the 26 EU fragrance allergens listed in Annex III lines 67-92. These substances are not intentionally added to the following chemical and therefore, are not expected to be present.

#### **GMO Statement**

The above-mentioned catalog item is manufactured without the use of genetically modified organisms and is therefore GMO free.

#### Melamine Statement

The above-mentioned catalog does not use or add melamine to the manufacturing process and is considered melamine-free.

#### Nitrosamine Statement

Based on knowledge of the manufacturing process, nitrosamine impurities are not known or suspected to be present in the above-mentioned material.

#### **Animal Testing Statement**

The above-mentioned catalog item has not been tested on animals.



#### **Organic Compliance Statement**

The above-mentioned catalog item has not been produced using GMOs, irradiation, ethylene oxide (EtO) or sewage sludge.

#### Shelf Life Statement

The above-mentioned catalog item is typically assigned a shelf life of 24 months from the date of manufacture. The actual assigned shelf life for any specific lot should be referenced on the Certificate of Analysis.

#### Other Chemicals Statement

Spectrum does not have any reason to suspect the above-mentioned catalog item contains any of the following chemicals. This product does not come into contact with these chemicals during packaging or storage:

- Aflatoxins
- Antibiotics
- Bisphenol A (BPA)
- CMR Substances

- Parabens
- Pesticides
- Phthalates
- Preservatives



# Elemental Impurities - D-Galactose, NF, EP, bioCERTIFIED <sup>™</sup> (Catalog No. G9405)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above material complies with the USP<232>, <233> Elemental Impurities and the ICH Q3D Elemental Impurities Guideline. The following elemental impurities are likely to be present:

Elemental Impurity		Class	Expected Concentration
Thallium	TI	2B	Not tested
Gold	Au	2B	Not tested
Palladium	Pd	2B	Not tested
Iridium	Ir	2B	Not tested
Osmium	Os	2B	Not tested
Rhodium	Rh	2B	Not tested
Ruthenium	Ru	2B	Not tested
Selenium	Se	2B	Not tested
Silver	Ag	2B	Not tested
Platinum	Pt	2B	Not tested
Barium	Ва	3	Not tested
Molybdenum	Мо	3	Not tested
Tin	Sn	3	Not tested
Chromium	Cr	3	Not tested

Elements indicated as "Not tested" are not intentionally added to the manufacturing process.

Other elemental impurities considered by USP <232>, <233> and ICH Q3D which are not addressed in the above-mentioned table are not likely to be present. These substances are not used in the production process, are not intentionally added, or known to be present in the above-mentioned material.

This information is subject to change and is intended for risk assessment only. It is the responsibility of the end user to evaluate suitability of any chemical for the intended use as well as to assess compound-specific limits of daily intake of metal impurities. For lot specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at TechServices@spectrumchemical.com.

Sincerely,
Technical Services
Spectrum Chemical Mfg. Corp.



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# Residual Solvents - D-Galactose, NF, EP, bioCERTIFIED <sup>™</sup> (Catalog No. G9405)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above-mentioned catalog item complies with the requirements of USP <467> Residual Solvents and ICH Q3C Residual Solvents Guideline. The following solvents are likely to be present:

Residual Solvent	Class	Expected Concentration
Methanol	2	< 3000 ppm

No Class 1, Class 3 or other solvents are used or produced in the manufacturing process of this material.

For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at TechServices@spectrumchemical.com.

Sincerely, Technical Services Spectrum Chemical Mfg. Corp.

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#### **Label Information**

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication. Below you will find a typical label example for this catalog item.

evaluated per GHS/OSHA criteria and is not classified as hazardous. All chemicals may pose unknown hazards and must be used with caution. Use personal protection and safe handling methods consistent with proper workplace safety practices. Consult precautions. If adverse reaction occurs seek medical attention.

## KEEP FROM CHILDREN WARNING:

**USE CARE:** This material has been

Cancer and Reproductive Harmwww.P65Warnings.ca.gov

## G9405 SIZ SY **D-Galactose**

NF, EP, bioCERTIFIED™

CAS 59-23-4



**CAUTION:** For manufacturing, processing or repacking. Further processing and testing required for use in parenteral applications.

Read and understand the label and Safety Data Sheet (SDS) prior to use.

Chemical Emergency: (800)424-9300

www.SpectrumChemical.com

$C_6^{}H_{12}^{}O_6^{}$		F.W. 180.16
Plant Derived, Not st	terile	
		+78.0° to +81.5
Acidity (ME)	(LF)	To page too
Annogrance of Colut	ion (NE 2 ED)	To page too
Арреаганое от оони	MAXIMI	To pass tes To pass tes M LIMITS
Water Determination	(NF & FP)	1.09
Residue on Ignition	(NF)	
Sulfated Ash (FP)	( /	0.19
Proteins (EP)		To pass tes
Related Substances	(EP):	.,
Sum of Impurities	À and B	1.09
		2.09
Related Substances	(NF):	
Lactose and 1,6-Ga	alactosylgalacto	se0.69
Dulcitol		
Total Impurities		1.09
Barium (NF)		
Lead (NF)		0.5 μg/
		1.09
		As reporte
		To pass tes
Microbial Limits:		
Bacterial Endotoxin	18	25 EU/
rotar Aerobic Micro	obiai Count	100 CFU/
	_	Lot No. XQ####
G 1/M2GHS	?	LULINU, AU####

#### Spectrum Chemical Mfg Corp

732.214.1300