

# SAFETY DATA SHEET

Revision date 18-Nov-2021

**BIO-RAJ**

Revision Number 1

E. coli HB101 Lyophilized

Revision date 18-Nov-2021

No information available.  
Bioactivity Level 1 - Agents not known to consistently cause disease in healthy adults and that present minimal potential hazard to laboratory personnel and the environment, are present in this product. Contains human source material and / or potentially infectious components.

## 1. Identification

### Product Identifier

E. coli HB101 Lyophilized

### Other means of identification

Catalog Number(s) 1680408, 1680409EDU, 9702924

### Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

### Details of the supplier of the safety data sheet

**Corporate Headquarters**  
Bio-Rad Laboratories Inc.  
1000 Alfred Nobel Drive  
Hercules, CA 94547  
USA

**Manufacturer Address**  
Bio-Rad Laboratories, Life Science Group  
2000 Alfred Nobel Drive  
Hercules, California 94547  
USA

**Legal Entity/ Contact Address**  
Bio-Rad Laboratories  
Life Science  
2000 Alfred Nobel Drive  
Hercules, California 94547

### Technical Service

1-800-424-6723  
support@bio-rad.com

### Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC USA, 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 aqueous solution

Physical state Liquid

Odor Odorless

### Other information

AGHS / EN

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## 3. Composition/information on ingredients

Substance	Chemical name	CAS No	Weight-%	Trade secret
	E. coli Bacteria	NO-CAS-104	50 - 100	

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

### Description of first-aid measures

- Inhalation** Remove to fresh air.
- Eye contact** Call a physician if irritation persists. Contains human source material and / or potentially infectious components.
- Skin contact** Wash skin with soap and water.
- Ingestion** Call a physician. Contains human source material and / or potentially infectious components.

**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 Contains human source material and / or potentially infectious components.

## 5. Fire-fighting measures

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

**Specific hazards arising from the chemical** No information available.

**Explosion data** Sensitivity to mechanical impact None

**Sensitivity to static discharge** None

**Special protective equipment and precautions 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**

**Personal precautions** Ensure adequate ventilation

**Methods and material for containment and cleaning up**

- Methods for containment Do not allow into any sewer, on the ground or into any body of water.
- Methods for cleaning up Clean contaminated surface thoroughly Use: Disinfectant.

**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 Store according to product and label instructions.

**8. Exposure controls/personal protection****Control parameters****Exposure Limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Hand protection**

Wear suitable gloves

**Skin and body protection**

Wear suitable protective clothing

**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**

Follow universal and standard precautions for handling potentially infectious materials.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state Liquid  
Appearance aqueous solution  
Color light pink  
Odor Odorless  
Odor threshold No information available

**Property**

Property	Values	Remarks • Method
pH	7.5-8.5	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	100 °C / 212 °F	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air	No data available	None known
Upper flammability or explosive limits	No data available	None known
Lower flammability or explosive limits	No data available	None known
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Miscible in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	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  
Softening point No information available  
Molecular weight No information available  
VOC Content (%) No information available  
Liquid Density No information available  
Bulk density No information available

**10. Stability and reactivity****Reactivity**

No information available.

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

None known based on information supplied.

**Incompatible materials**

None known based on information supplied.

**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.

**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****Symptoms**

No information available.

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**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  
No information available.

Serious eye damage/eye irritation  
No information available.

Respiratory or skin sensitization  
No information available.

Germ cell mutagenicity  
No information available.

Carcinogenicity  
No information available.

Reproductive toxicity  
No information available

STOT - single exposure  
No information available

STOT - repeated exposure  
No information available

Aspiration hazard  
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  
No information available.

Bioaccumulation  
There is no data for this product.

Other adverse effects  
No information available

**13. Disposal considerations**

**Waste treatment methods**

Waste from residues/unused  
Dispose of in accordance with local regulations. Dispose of waste in accordance with

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**products**

environmental legislation

Contaminated packaging

Do not reuse empty containers.

**14. Transport information**

DOT

Not regulated

IDG

Not regulated

MEG

Not regulated

IATA

Not regulated

IMDG

Not regulated

**15. Regulatory information**

International Inventories

Contact supplier for inventory compliance status

**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).

CERCLA

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**

EPA Pesticide Registration Number: Not applicable

**16. Other information**

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NFPA	Health hazards 0	Flammability 0	Instability 0	Special hazards *
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 Time-weighted average STEL (Short Term Exposure Limit)

Ceiling Maximum limit value STEL Skin designation

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) (AELGL(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 Union Chemical Information Database (IUCRID)
- National Institute of Technology and Evaluation (NITE)
- 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 19-Nov-2021  
 Revision Note Significant changes throughout SDS. Review all sections.  
 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