

Material Safety Data Sheet

1. Product and Company Identification

Product Name: BirA-transformed Competent E. coli cells

Catalog #: 27462

Supplied as 10 x 50 µl vials.

This product is sold only for research use by qualified laboratory personnel, and is not to be used as a drug, medical device, food additive, cosmetic, nor household chemical. It is not to be used in diagnostic, therapeutic, consumer, and agricultural applications.

2. Hazardous Identification

GHS – Classification

Signal Word – not hazardous

Health Hazard – not hazardous

Physical Hazards – not hazardous

HMIS

Health	0
Flammability	0
Reactivity	0

3. Composition, Information on Ingredients

This product consists of BL21 E. coli. These are a chemically competent E. coli B strain contains an IPTG-inducible BirA expression plasmid and constitutively-expressed streptomycin/spectinomycin resistance gene. Supplied in culture media containing amino acids, sugars, and salts. The physical properties of this product have not been investigated thoroughly. We recommend handling all chemicals and biological materials with caution.

4. First Aid Measures

Skin contact	Rinse with plenty of water. If symptoms arise, call a physician
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice
Inhalation	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration
Notes to physician	Treat symptomatically.

5. Fire Fighting Measures

Suitable extinguishing media

Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

6. Accidental Release Measures

Use personal protective equipment. To clean, soak up with inert absorbent material.

Environmental precautions – Prevent further leakage or spillage if safe to do so. Keep out of sewers and waterways

See section 12 for additional information.

7. Handling and Storage

Handling Always wear recommended Personal Protective Equipment. No special handling advice is required.

Storage Keep in a dry, cool and well-ventilated place. Create frozen stocks for long-term storage.

8. Exposure Controls, Personal Protection

Exposure limits No information available

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment (PPE)

PPE requirements depend on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Safety glasses with side shields.

Skin and body protection Lightweight protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Prevent product from entering drains.

9. Physical and Chemical Properties

General Information

Form	Bacteria supplied in vial with LB agar.
Appearance	Odorless.
Odor	Colorless
Boiling point/range	No data available
Melting point/range	No data available
Flash point	No data available
Autoignition temperature	No data available
Oxidizing properties	No information available
Water solubility	Soluble
pH value	~7.4

10. Stability and Reactivity

Stability	Stable under normal conditions
Materials to avoid	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	None under normal use
Polymerization	Hazardous polymerization does not occur.

11. Toxicological Information

The toxicological impacts of this product have not been investigated thoroughly. No known effects are known under normal use conditions. We recommend handling all chemicals with caution.

Potential Exposure/Health Effects

Eyes May cause eye irritation with susceptible persons

Skin	May cause skin irritation in susceptible persons
Inhalation	May be harmful by inhalation
Ingestion	May be harmful if swallowed

Specific Effects

Carcinogenic effects	none
Mutagenic effects	none
Reproductive toxicity	none
Sensitization	none

Target Organ Effects – no known effects under normal use conditions

12. Ecological Information

Ecological information for this product has not been investigated thoroughly. We recommend handling all chemicals with caution. Keep out of sewers and waterways.

13. Disposal Considerations

Dispose of in accordance with local regulations.

14. Transport Information

IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard class	None
Subsidiary Class	None
Packing group	None
UN-No	None

15. Regulatory Information

U.S. Federal Regulations

SARA 313 – not regulated by SARA

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) - product does not contain HAPs.

U.S. State Regulations

California Prop 65 – product does not contain chemicals listed under Proposition 65.

WHMIS Hazard Class

Non-controlled

Product is for in vitro research purposes only. Not intended for use in human or animals.

16. Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Date prepared: 10-28-2020

AMSBIO | www.amsbio.com | info@amsbio.com



UK & Rest of the World
184 Park Drive, Milton Park
Abingdon OX14 4SE, UK
T: +44 (0)1235 828 200
F: +44 (0) 1235 820 482



North America
1035 Cambridge Street,
Cambridge, MA 02141
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218



Germany
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880



Switzerland
Centro Nord-Sud 2E
CH-6934 Bioggio-Lugano
T: +41(0) 91 604 55 22
F: +41(0) 91 605 17 85