# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH), Generic EU SDS - No country specific data

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# Biolaminin 521 CTG

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

***Trade name***

Biolaminin 521 CTG

***Article No.***

CT521-0501, CT521-5001

***Contains***

Clear, colorless solution with a pH of 7.5 with 20 mM HEPES, 0.25 M NaCl, 10% glycerol

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

***Product type***

Human recombinant laminin for use as cell culture substrate.

***Relevant identified uses***

For cell culture applications in research or as raw material in manufacturing of cell, gene or tissue based medicinal products.

***Not suitable for use in***

Not for use in medical or diagnostic procedures.

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

***Supplier***

BioLamina AB

Address
Löfströms allé 5
17266 Sundbyberg
Sweden

Email
Quality.support@biolamina.com

Web site
https://biolamina.com/

### 1.4. Emergency telephone number

In case of emergency, call the local emergency number. European Union: 112

***Available outside office hours***

Yes

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture
The product is not classified as hazardous according to Regulation (EC) No 1272/2008.

### 2.2. Label elements
The product does not require labelling in accordance with CLP Regulation (EC) No 1272/2008.

### 2.3. Other hazards
This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures
***Product based on***
20 mM HEPES, 0.25 M NaCl, 10% glycerol

Does not contain any substances required to report.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures
In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
Do not leave the victim unattended.

***Inhalation***
In case of discomfort: bring the person into fresh air. Consult a physician if necessary.

***Skin contact***
Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

***Eye contact***
Rinse gently with lukewarm water. Remove any contact lenses if this is easy to do. Continue rinsing. Protect unharmed eye. In case of persistent eye irritation or discomfort: Seek medical help.

***Ingestion***
Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.

***Information for doctors***
Treat symptomatically.

**4.2. Most important symptoms and effects, both acute and delayed**
None known.

**4.3. Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

**Other**
Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

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

Suitable extinguishing media
Alcohol-resistant foam, carbon dioxide, powder, water mist

***Unsuitable extinguishing media***
Waterjets should not be used, since they can spread the fire.

**5.2. Special hazards arising from the substance or mixture**
Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Halogenated compounds
Carbon oxides (CO / CO2)
Some metal oxides

**5.3. Advice for firefighters**
***Special protective equipment for fire-fighters***
Wear self-contained breathing apparatus and protective suit.

***Measures in case of fire***
Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures
Contaminated areas may be slippery. Use personal protection equipment.

### 6.2. Environmental precautions
Avoid discharge to lakes, streams, sewers, etc. Keep unauthorized persons away from the spill.

### 6.3. Methods and material for containment and cleaning up
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections
SECTION 7: Handling and storage
SECTION 8: Exposure controls/personal protection
SECTION 13: Disposal considerations

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling
***Preventive handling precautions***
Always wear recommended Personal Protective Equipment. For personal protection, see section 8. Smoking, eating and drinking should be prohibited in the application area.

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

### 7.2. Conditions for safe storage, including any incompatibilities
Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

### 7.3. Specific end use(s)
This product should only be used for the uses described in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

***Exposure limits***

This is a generic EU SDS - No country specific data is included. Consult national legislation.

### 8.2. Exposure controls

***Appropriate engineering controls***

Apply general control to prevent unnecessary exposure. Smoking, drinking and consumption of food is not allowed in the work area. Avoid inhalation of vapours. Wash hands after use.

Professional users are subjected to the legally set maximum concentrations for occupational exposure. For occupational hygiene limit values, consult national legislation. Compliance with any national occupational exposure limits values should be controlled on a regular basis - Consult national legislation.

***Eye / face protection***

Safety Glasses (EN166)

***Hand protection***

Protective gloves

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the material safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

***Other skin protection***

Wear suitable protective clothing.

***Respiratory protection***

No personal respiratory protective equipment normally required.
In case of inadequate ventilation wear respiratory protection.

***Environmental exposure controls***

No special environmental precautions required.

**Other**

Use only CE-marked or locally approved protective equipment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

***Physical state***
Liquid

***Colour***
Clear colorless to slightly opalescent solution

***Odour***
None

***Odour threshold***
No data available

***Melting point / freezing point***
No data available

***Boiling point or initial boiling point and boiling range***
No data available

***Flammability***
No data available

***Lower and upper explosion limit***
No data available

***Flash point***
No data available

***Auto-ignition temperature***
No data available

***Decomposition temperature***
No data available

***pH***
7 - 8

***Kinematic viscosity***
No data available

***Viscosity, dynamic***
No data available

***Solubility***
Completely miscible

***Water solubility***
No data available

***Partition coefficient n-octanol/water***
No data available

***Vapour pressure***
No data available

***Density and/or relative density***
No data available

***Relative density***
No data available

***Relative vapour density***
No data available

***Explosive properties***
No data available

***Oxidising properties***
The mixture is not classified as oxidizing.

***Particle characteristics***
No data available

**9.2. Other information**
No data available

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**
Stable under normal conditions.

**10.3. Possibility of hazardous reactions**
No dangerous reaction known under conditions of normal use. Stable under recommended storage conditions. No hazards to be specially mentioned.

**10.4. Conditions to avoid**
No data available

**10.5. Incompatible materials**
No data available

**10.6. Hazardous decomposition products**
No data available

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

***Acute toxicity***
Based on available data, the classification criteria are not met.

***Skin corrosion/irritation***
Based on available data, the classification criteria are not met.

***Serious eye damage/irritation***
Based on available data, the classification criteria are not met.

***Respiratory or skin sensitisation***
Based on available data, the classification criteria are not met.

***Germ cell mutagenicity***
Based on available data, the classification criteria are not met.

***Carcinogenicity***
Based on available data, the classification criteria are not met.

***Repeated dose toxicity***
Based on available data, the classification criteria are not met.

***Reproductive toxicity***
Based on available data, the classification criteria are not met.

***STOT-single exposure***
Based on available data, the classification criteria are not met.

***STOT-repeated exposure***
Based on available data, the classification criteria are not met.

***Aspiration hazard***
Based on available data, the classification criteria are not met.

### 11.2. Information on other hazards

***Endocrine disrupting properties***
The product does not contain any known or suspected endocrine disruptors.

## SECTION 12: Ecological information

### 12.1. Toxicity

Contains no substance known to be hazardous to the environment or not degradable in waste water treatment plants.

### 12.2. Persistence and degradability
No data available

### 12.3. Bioaccumulative potential
No data available

### 12.4. Mobility in soil
No data available

### 12.5. Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6. Endocrine disrupting properties
The product does not contain any known or suspected endocrine disruptors.

### 12.7. Other adverse effects
No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods
***Disposal considerations***
Can be disposed as waste water, when in compliance with local regulations.

***Packaging***
Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## SECTION 14: Transport information

### 14.1. UN number
Not regulated as a dangerous good

### 14.2. UN proper shipping name
Not applicable

### 14.3. Transport hazard class(es)
Not applicable

### 14.4. Packing group
Not applicable

**14.5. Environmental hazards**
Not applicable

**14.6. Special precautions for user**
Not applicable

**14.7. Maritime transport in bulk according to IMO instruments**
Not applicable

**Other**
Not applicable

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

***EU regulations***

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals - Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) - Not applicable
Restricted substances under EC 1907/2006, Annex XVII - Not applicable
Authorised substances under EC 1907/2006, Annex XIV - Not applicable

Regulation (EU) 2024/590 of the European Parliament and of the Council of 7 February 2024 on substances that deplete the ozone layer, and repealing Regulation (EC) No 1005/2009 - Not applicable

Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants - Not applicable

Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC - Not applicable

***National regulations***

Local laws and regulations should be carefully observed.

### 15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

**Other**

Restricted to professional users.

## SECTION 16: Other information

***Changes to previous revision***

Section 1.1. updated – Article number added.

***Abbreviations***

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road;
bw - Body weight;
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008;
CMR - Carcinogen, Mutagen or Reproductive Toxicant;
ECHA - European Chemicals Agency; EC-Number - European Community number;
ECx - Concentration associatedwith x% response;
ELx - Loading rate associated with x% response;
ErCx - Concentration associated with x% growth rate response;
IATA - International Air Transport Association;
IC50 - Half maximal inhibitory concentration;
ICAO - International Civil Aviation Organization;
IMDG - International Maritime Dangerous Goods;
IMO - International Maritime Organization;
ISO - International Organisation for Standardization;
LC50 - Lethal Concentration to 50 % of a test population;
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose);
NO(A)EC - No Observed (Adverse) Effect Concentration;
NO(A)EL - No Observed (Adverse) Effect Level;
OECD - Organization for Economic Co-operation and Development;
PBT - Persistent, Bioaccumulative and Toxic substance;
REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals;
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail;
SDS - Safety Data Sheet;
SVHC - Substance of Very High Concern;
UN - United Nations;
vPvB - Very Persistent and Very Bioaccumulative

***References to key literature and data sources***
European Chemicals Agency Website (ECHA)
Previous versions of SDS'

***Evaluation methods for classification***
Calculation method.

***Additional information***
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.