

## **β-CrossLaps/serum**

Version	Revision Date:	Date of last issue: 31.07.2014
1.5	18.02.2015	Date of first issue: 04.12.2013

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

#### **1.1 Product identifier**

Commercial Product Name : β-CrossLaps/serum  
Mat.-No./ Genisys-No. : 11972308122

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

Recommended restrictions : For professional users only.  
on use

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

Company : Roche Diagnostics Deutschland GmbH  
-  
Sandhoferstrasse 116  
68305 Mannheim  
E-mail address : mannheim.umweltschutz@roche.com  
Telephone : +496217590  
Telefax : +496217592890  
Responsible Department : +49(0)621-759-2012+49(0)621-759-4848+49(0)8856-60-2629

#### **1.4 Emergency telephone number**

In case of emergencies: : Central Works Security +49(0)621-759-2203  
Roche Diagnostics GmbH  
Centre for detoxification: : Mainz +49(0)6131-19240  
Munich +49(0)89-19240

### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture**

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit.

#### **2.2 Label elements**

##### **Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

##### **Additional Labelling:**

EUH210 Safety data sheet available on request.

#### **2.3 Other hazards**

See SECTION 3

### **SECTION 3: Composition/information on ingredients**

#### ***Beads (MP)***

## **β-CrossLaps/serum**

Version  
1.5

Revision Date:  
18.02.2015

Date of last issue: 31.07.2014  
Date of first issue: 04.12.2013

### **Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

### **Classification (67/548/EEC, 1999/45/EC)**

Not a hazardous substance or mixture.

### **Hazardous components**

Remarks : No hazardous ingredients

## **R1**

### **Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

### **Classification (67/548/EEC, 1999/45/EC)**

Not a hazardous substance or mixture.

### **Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Edetic acid disodium salt dihydrate (EDTA- 2Na-2H <sub>2</sub> O)	6381-92-6	Xn; Xn; R20	Acute Tox. 4; H332	>= 1 - < 10

For explanation of abbreviations see section 16.

## **R2**

### **Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

### **Classification (67/548/EEC, 1999/45/EC)**

Not a hazardous substance or mixture.

### **Hazardous components**

Remarks : No hazardous ingredients

## **SECTION 4: First aid measures**

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

- General advice : Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
- In case of eye contact : Immediately flush eye(s) with plenty of water.

## **β-CrossLaps/serum**

Version  
1.5

Revision Date:  
18.02.2015

Date of last issue: 31.07.2014  
Date of first issue: 04.12.2013

Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Rinse mouth with water.

### **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**

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

---

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

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

### **5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire-fighting : No information available.

### **5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : 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**

Personal precautions : Refer to protective measures listed in sections 7 and 8.

### **6.2 Environmental precautions**

Environmental precautions : Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

## **β-CrossLaps/serum**

Version  
1.5

Revision Date:  
18.02.2015

Date of last issue: 31.07.2014  
Date of first issue: 04.12.2013

### **6.4 Reference to other sections**

Treat recovered material as described in the section "Disposal considerations".

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

### **7.2 Conditions for safe storage, including any incompatibilities**

- Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : See label, package insert or internal guidelines
- Advice on common storage : No materials to be especially mentioned.
- Storage class (TRGS 510) : 12, Non Combustible Liquids
- Other data : No decomposition if stored and applied as directed.

### **7.3 Specific end use(s)**

- Specific use(s) : Laboratory chemicals

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### ***Beads (MP)***

Contains no substances with occupational exposure limit values.

#### ***R1***

Contains no substances with occupational exposure limit values.

#### ***R2***

Contains no substances with occupational exposure limit values.

### **8.2 Exposure controls**

#### **Personal protective equipment**

- Eye protection : Safety glasses

## **β-CrossLaps/serum**

Version  
1.5

Revision Date:  
18.02.2015

Date of last issue: 31.07.2014  
Date of first issue: 04.12.2013

### Hand protection

Material : Protective gloves

Remarks : 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 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.

Skin and body protection : Protective suit

Respiratory protection : No personal respiratory protective equipment normally required.

## **SECTION 9: Physical and chemical properties**

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

#### ***Beads (MP)***

Appearance : liquid

Colour : colourless

Odour : none

Odour Threshold : No data available  
pH : 7,4

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available  
Flammability (solid, gas) : Does not sustain combustion.

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available  
Relative vapour density : No data available  
Relative density : No data available  
Density : 1,01 g/cm<sup>3</sup> (20 °C)

## **β-CrossLaps/serum**

Version  
1.5

Revision Date:  
18.02.2015

Date of last issue: 31.07.2014  
Date of first issue: 04.12.2013

Solubility(ies)  
Water solubility : completely miscible

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

Ignition temperature : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Explosive properties : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

### **R1**

Appearance : liquid

Colour : colourless

Odour : odourless

Odour Threshold : No data available

pH : 7,2

Melting point/freezing point : No data available

Initial boiling point and boiling  
range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1,02 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : completely miscible

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

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Explosive properties : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

### **R2**

Appearance : liquid

## **β-CrossLaps/serum**

Version  
1.5

Revision Date:  
18.02.2015

Date of last issue: 31.07.2014  
Date of first issue: 04.12.2013

Colour	: colourless
Odour	: odourless
Odour Threshold	: No data available
pH	: 7,2
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: does not flash
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 1,02 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

### **9.2 Other information**

#### ***Beads (MP)***

No data available

#### ***R1***

No data available

#### ***R2***

No data available

## **β-CrossLaps/serum**

Version  
1.5

Revision Date:  
18.02.2015

Date of last issue: 31.07.2014  
Date of first issue: 04.12.2013

---

### **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**

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 hazardous decomposition products are known.

---

### **SECTION 11: Toxicological information**

#### **11.1 Information on toxicological effects**

##### ***Beads (MP)***

##### **Acute toxicity**

Not classified based on available information.

##### **Skin corrosion/irritation**

Not classified based on available information.

##### **Serious eye damage/eye irritation**

Not classified based on available information.

##### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

##### **Germ cell mutagenicity**

Not classified based on available information.

##### **Carcinogenicity**

Not classified based on available information.

##### **Reproductive toxicity**

Not classified based on available information.

##### **STOT - single exposure**

Not classified based on available information.

##### **STOT - repeated exposure**

Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## **β-CrossLaps/serum**

Version  
1.5

Revision Date:  
18.02.2015

Date of last issue: 31.07.2014  
Date of first issue: 04.12.2013

### **Aspiration toxicity**

Not classified based on available information.

**R1**

### **Acute toxicity**

Not classified based on available information.

### **Components:**

#### **Edetic acid disodium salt dihydrate (EDTA-2Na-2H<sub>2</sub>O):**

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg  
Test substance: anhydrous substance

LD50 Oral (Rabbit): 2.300 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1 - 5 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Test substance: anhydrous substance

Acute toxicity estimate: 1,5 mg/l  
Test atmosphere: dust/mist  
Method: Expert judgement

### **Skin corrosion/irritation**

Not classified based on available information.

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **Edetic acid disodium salt dihydrate (EDTA-2Na-2H<sub>2</sub>O):**

Genotoxicity in vitro : Test Type: Ames test  
Remarks: In vitro tests did not show mutagenic effects

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

**R2**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## **β-CrossLaps/serum**

Version  
1.5

Revision Date:  
18.02.2015

Date of last issue: 31.07.2014  
Date of first issue: 04.12.2013

### **Acute toxicity**

Not classified based on available information.

### **Skin corrosion/irritation**

Not classified based on available information.

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

---

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### ***Beads (MP)***

No data available

**R1**

#### **Components:**

##### **Edetic acid disodium salt dihydrate (EDTA-2Na-2H<sub>2</sub>O):**

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): ca. 320 mg/l  
Exposure time: 96 h  
Test substance: anhydrous substance

LC50 (Leuciscus idus (Golden orfe)): > 500 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): > 100 mg/l  
aquatic invertebrates Exposure time: 24 h

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h

Toxicity to bacteria : EC50 (Pseudomonas putida): 56 mg/l  
Exposure time: 8 h  
Test substance: anhydrous substance

## **β-CrossLaps/serum**

Version  
1.5

Revision Date:  
18.02.2015

Date of last issue: 31.07.2014  
Date of first issue: 04.12.2013

Ecotoxicology Assessment  
Acute aquatic toxicity : This product has no known ecotoxicological effects.  
Chronic aquatic toxicity : This product has no known ecotoxicological effects.  
Toxicity Data on Soil : Not expected to adsorb on soil.  
Other organisms relevant to the environment : No data available

### **R2**

No data available

## **12.2 Persistence and degradability**

### **Beads (MP)**

No data available

### **R1**

#### **Components:**

#### **Edetic acid disodium salt dihydrate (EDTA-2Na-2H<sub>2</sub>O):**

Biodegradability : Biodegradation: 3 %  
Method: Directive 67/548/EEC Annex V, C.4.C.  
Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.

Biochemical Oxygen Demand (BOD) : 10 mg/g  
Incubation time: 5 d

### **R2**

No data available

## **12.3 Bioaccumulative potential**

### **Beads (MP)**

No data available

### **R1**

No data available

### **R2**

No data available

## **12.4 Mobility in soil**

### **Beads (MP)**

No data available

### **R1**

No data available

### **R2**

No data available

## **β-CrossLaps/serum**

Version  
1.5

Revision Date:  
18.02.2015

Date of last issue: 31.07.2014  
Date of first issue: 04.12.2013

### **12.5 Results of PBT and vPvB assessment**

#### ***Beads (MP)***

Not relevant

**R1**

Not relevant

**R2**

Not relevant

### **12.6 Other adverse effects**

#### ***Beads (MP)***

No data available

**R1**

No data available

**R2**

No data available

---

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product : Can be disposed as waste water, when in compliance with local regulations.

Contaminated 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 regulated as a dangerous good

### **14.3 Transport hazard class(es)**

Not regulated as a dangerous good

### **14.4 Packing group**

Not regulated as a dangerous good

### **14.5 Environmental hazards**

Not regulated as a dangerous good

### **14.6 Special precautions for user**

Remarks : Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

## **β-CrossLaps/serum**

Version 1.5	Revision Date: 18.02.2015	Date of last issue: 31.07.2014 Date of first issue: 04.12.2013
----------------	------------------------------	---

Remarks : Not applicable

### **SECTION 15: Regulatory information**

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

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances  
Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

Water contaminating class (Germany) : WGK 1 slightly water endangering

#### ***Beads (MP)***

##### **Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

#### ***R1***

##### **Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

##### **Additional Labelling:**

EUH210 Safety data sheet available on request.

#### ***R2***

##### **Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

#### **15.2 Chemical Safety Assessment**

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

### **SECTION 16: Other information**

#### **Full text of R-Phrases**

R20 : Harmful by inhalation.

#### **Full text of H-Statements**

H332 : Harmful if inhaled.

#### **Full text of other abbreviations**

Acute Tox. : Acute toxicity

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## **β-CrossLaps/serum**

Version  
1.5

Revision Date:  
18.02.2015

Date of last issue: 31.07.2014  
Date of first issue: 04.12.2013

---

### **Further 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.

DE / EN