

# MATERIAL SAFETY DATA SHEET-v4

**Product** anti-BIO AP conjugate, anti-DIG AP conjugate

**Cat. no.** R003R.0000, R041R.0000

**Pan  
Path**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Identification of the product

Name :  $\alpha$ BIO- &  $\alpha$ DIG-AP conjugate

Product code : R003R.0000 & R041R.0000

### Marketed by

PanPath B.V.

Science Park Amsterdam

Kruislaan 406, 1098 SM Amsterdam, the Netherlands

Tel +31 20 751 2030 - Fax +31 20 751 2031

### Produced by

Roche Molecular Biochemicals

Markerkant 13-10, 1314 AN Almere, The Netherlands

P.O. Box 1007, 1300 BA Almere, The Netherlands

Tel. +31 36 539 4911, Fax +31 36 539 4231

## 2. COMPOSITION AND INFORMATION ON INGREDIENTS

- Triethanolamine (CAS-No. 1310-73-2)
- Sodium azide (CAS-No. 26628-22-8; EINECS No. 247-852-1; Molecular weight 65.01; Molecular formula  $N_3Na$ )
- $\alpha$ BIO- &  $\alpha$ DIG-AP Fab-fragments

## 3. IDENTIFICATION OF HAZARDS AND EFFECTS

### Conditions to avoid

Excess heat, flame or pressure.

### Substances to avoid

Incompatible with strong oxidizing agents. Contact with acids liberates very toxic gas.

### Hazardous combustion or decomposition products

Dangerous combustible- or dissectible products.

Toxicological vapors by: CO and/or CO<sub>2</sub>, nitrogen acids and nitrogen. Dangerous polymerization will not occur.

### Fire and explosion hazards

Emits toxic fumes under fire conditions.

## 4. FIRST AID MEASURES

EXPOSURE	SYMPTOMS	FIRST AID MEASURES
Inhalation	abdominal cramps, sickness, dizziness, headache, vomiting	Fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult doctor if feeling unwell.
Eye contact	red, irritating	Flush with copious amounts of water with the eyelid held wide open. Summon eye specialist.
Skin contact	red, irritating	Wash with copious amounts of water. Remove contaminated clothing.
Ingestion	abdominal cramps, sickness, dizziness, headache, vomiting	Make victim drink plenty of water, induce vomiting. Summon doctor.

## 5. FIRE FIGHTING MEASURES

Suitable extinguishing media : water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special fire fighting procedure : wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

## **MATERIAL SAFETY DATA SHEET-v4**

**Product** anti-BIO AP conjugate, anti-DIG AP conjugate

**Cat. no.** R003R.0000, R041R.0000

**Pan  
Path**

### **6. ACCIDENTAL RELEASE MEASURES**

Take up with liquid-absorbent material. Forward for disposal and clean up affected area.

### **7. HANDLING & STORAGE INFORMATION**

#### **Handling information**

Keep closed when not in use. Wear suitable protective clothing when handling fluid. Preferably handle in a chemical fume hood. When heating the solution use sealable jar placed in water bath or incubator. Do not warm by direct heating. Make sure temperature does not exceed 130 °C.

#### **Storage information**

Store at 2-8 °C.

### **8. PERSONAL PRECAUTIONS & PROTECTION**

#### **Personal precautions**

The usual precautions taken when handling chemicals should be observed. Refer to product data sheet for recommended specific use. Do not inhale vapors, do not get in eyes, on skin or clothing. Wash hands thoroughly after handling.

#### **Personal protection**

**Respiratory protection** : Required when vapors/aerosols are generated. Preferably work in a chemical fume hood or wear adequate mask with filter (according to DIN 3181 for vapors of organic compounds).

**Skin protection** : Required. Wear suitable protective clothing and gloves.

**Eye protection** : Required. Wear safety glasses or goggles.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	liquid	Flashing point:	no data available
Color:	light yellow	Explosion limits:	no data available
Odor:	characteristic	Vapor pressure:	no data available
pH (20 °C):	8.1	Relative density:	no data available
Viscosity <sub>dynamic</sub> (20°C):	no data available	Solubility in water:	fairly soluble
Boiling range:	no data available	log P(o/w):	no data available
Melting point:	no data available		
Autoflammability:	no data available		

### **10. STABILITY & REACTIVITY**

#### **Stability**

The product is stable when stored under the recommended conditions.

#### **Reactivity**

No reaction with water.

## **MATERIAL SAFETY DATA SHEET-v4**

**Product** anti-BIO AP conjugate, anti-DIG AP conjugate

**Cat. no.** R003R.0000, R041R.0000

### **11. TOXICOLOGICAL INFORMATION**

#### *Toxicological information*

The chemical, physical and toxicological characteristics have not yet been examined.

#### *Acute effects*

May be harmful by inhalation, ingestion or skin absorption. Vapor or mist is irritating to the eyes, mucous membranes and upper respiratory tract. Causes skin irritation.

#### *Chronic effects*

May cause birth defects.

### **12. ECOLOGICAL INFORMATION**

Biologic degradation: no data available.

Behavior in environmental compartments: no data available.

Ecotoxic effects: no data available.

### **13. DISPOSAL CONSIDERATIONS**

**Product:** there are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

**Packaging:** disposal in accordance with local provisions. Contaminated packages should be treated the same as the product itself.

### **14. TRANSPORT INFORMATION**

This product is not subject to current regulations for transportation of hazardous goods.

### **15. REGULATORY INFORMATION**

Labeling according to ECC directives.

<b>R</b>	<b>S</b>	<b>SYMBOL</b>
28, 32, 50/53		T+ N

**Label precautionary statements:** harmful by inhalation, in contact with skin and if swallowed. May cause birth defects. Irritating to eyes, respiratory system and skin.

### **16. ADDITIONAL INFORMATION (IF APPLICABLE)**

*The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. We make no warranty express or*

## **MATERIAL SAFETY DATA SHEET-v4**

**Product** anti-BIO AP conjugate, anti-DIG AP conjugate

**Cat. no.** R003R.0000, R041R.0000

**Pan**  
**Path**

*implied, with respect to the information and assume no liability. Product users should determine the suitability of this information for their own uses.*