



## MATERIAL SAFETY DATA SHEET

**1. Product identification:** **Heparanase Kit (cat. no: Ra001-BE-K)**  
 Manufactured by: Razie Biotech  
 Distributed by: AMS Biotechnology

### 2. List of components:

Catalog #	Component	Quantity	Storage Temperature
FB001-01-6K	Base Buffer	6 ml	-20°C
FB001-02-30	Additive 1	30 µl	4°C
Fb001-03-30	Additive 2	30 µl	4°C
FB001-04-5K	20X HEPARANASE Buffer	5ml	-20°C
FB001-05-20	Strep-HRP	10 µl	-20°C
FB001-06-10K	HRP Substrate	10ml	4°C
FB002-100-Bck	Positive control (Bacterial Enzyme)	100µl	-20°C
FB001-01P- HE	HS-plate	1	-20°C

### 3. Hazards

It is recommended that all laboratory personnel follow standard safety procedures when handling this product. They should wear eye protection, gloves and protective clothing. Direct physical contact with all components in this product should be avoided.

### Known hazardous components:

#### **FB001-06-10K HRP Substrate (3,3',5,5'Tetramethylbenzidine, TMB )**

**TOXIC** by inhalation, skin contact and if swallowed. Can cause irreversible damage by inhalation, contact with skin or if swallowed. Irritating to the eyes and respiratory system. Potentially flammable.

Remaining components are classified as non-hazardous due to their nature and/or concentration

### **WARNING**

Some components of this kit contain materials which - can cause colouring of the skin and clothing - can cause irritation to skin, eyes, respiratory and gastrointestinal tracts; - are harmful if inhaled.

#### Potential Health Effects:

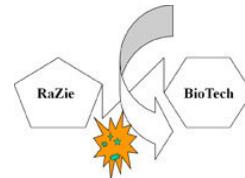
Inhalation: Irritation to respiratory tract. Symptoms include coughing, shortness of breath.

Ingestion: Toxic. Corrosive to mucous membranes. General gastro-intestinal upset can be expected.

Skin contact: colouring, burns or irritation to skin. Symptoms include redness, itching, pain.

Eye contact: Irritation, possibly corrosive to eye tissues. Tearing, redness and pain are symptoms





#### 4. First Aid Measures

Skin contact: Immediately wash with plenty of water for a minimum of 15 minutes.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Seek medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: Do Not Induce Vomiting, Give large amounts of water, immediately get medical attention.

#### 5. Fire Fighting Measures

Not considered to be a fire or explosive hazard.

Precautions during fire: Avoid inhalation of fumes. Move container from fire area if possible.

Extinguish the fire using any means available and is suitable for the surrounding fire.

#### 6. Accidental Release Measures

Ventilate area. Wipe or pick up materials, place in sealed container and dispose of in accordance with local regulations then wash the spill area with water.

#### 7. Handling and Storage

This kit should be only handled and used by trained personnel, using eye protection and protective clothing and gloves, following Good Laboratory Practice.

This kit should be stored as recommended on the product leaflet. All components should be kept in tightly closed containers.

#### 8. Exposure Controls / Personal Protection

As described in the previous sections

#### 9. Stability and Reactivity

Stability: The kit components are stable for at least 3 months if kept 1 under the specified storage conditions.

Reactivity: Not known

#### 10. Toxicological Information

Contains toxic materials. Harmful by ingestion, inhalation and skin exposure.

No known carcinogenic effects.

#### 11. Ecological Information

None available.

#### 12. Disposal Considerations

Must be disposed of in accordance with local environmental control regulations.

**The above information is believed to be correct, however, the physical, chemical, and toxicological properties of the product may not yet have been fully characterized. Razie Biotech recommends the use of gloves, lab coats and eye protection while using or handling components of this kit. During the detection stage, the reaction is stopped using 012M hydrochloric acid (HCl) solution (NOT supplied in the kit). It is strongly advised that the user should follow the safety procedure recommended by the HCl provider and follow general laboratory precautions needed for using hydrochloric acid.**

**Razie Biotech assumes no liability for damage resulting from handling or contact with the above product. This MSDS does not represent any guarantee of the properties of the product.**

