

Version 1.3 - Revision Date 06/11/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Human BD-2 ELISA Matched Antibody Pair Kit

Catalog Number: 41-9242-P002
Brand: Tonbo Biosciences
Supplier: Tonbo Biosciences

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Preparation Information: Tonbo Biosciences Product Safety

+1 (855) 848-6626 toll-free

2. HAZARDS IDENTIFICATION

Classification of substance or mixture: Not a hazardous substance or mixture

GHS classification: Does not meet the classification criteria of the EC Directives

67/548/EEC, 1999/45/EC or 1272/2008

GHS labeling: Does not meet the need to be labeled in accordance with EC

directives or respective national laws.

Special hazards: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	%	CAS number	
Sodium chloride	0.1-1.0	7647-14-5	

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which are classified as hazardous to health or the environment.



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4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen and consult a physician.

In case of skin contact

Wash off immediately with soap and plenty of water, remove any contaminated clothing, and consult a physician.

In case of eye contact

Flush eyes with water for at least 15 minutes and consult a physician.

If swallowed

Rinse mouth with water and consult a physician immediately.

5. FIREFIGHTING MEASURES

Conditions of flammability: Not flammable or combustible.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas. Use eye protection, gloves, and apron.

Environmental precautions

No special environmental precautions required.

Methods and materials for containment and cleaning up

Use a damp mop or sponge to clean up spill and surrounding area. Keep in suitable, closed containers for disposal. Ventilate area and wash site after material is picked up.



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7. HANDLING AND STORAGE

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Store Captured Antibody, Detection Antibody and Standard at -20°C until use. Store aliquoted Streptavidin-HRP Conjugate.

Special requirement: Light sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Ensure adequate ventilation. Use appropriate personal protective work clothing.

Personal protective equipment

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

General industrial hygiene practice.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Capture Antibody, Detection Antibody, and Standard: Solid; White powder or thin/invisible film. Streptavidin-HRP Conjugate: Liquid; amber

Safety data:

pH:

Capture Antibody, Detection Antibody, and Standard: data available

Streptavidin-HRP Conjugate: 6-7

Melting point/freezing point no data available no data available **Boiling** point Flash point no data available Ignition temperature no data available Autoignition temperature no data available Lower explosion limit no data available Upper explosion limit no data available Vapour pressure no data available Density no data available Water solubility no data available Partition coefficient: n-octanol/water no data available Relative vapour density no data available Odour no data available Odour Threshold no data available Evaporation rate no data available

10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: no data available

Conditions to avoid: Prolonged light exposure may affect product performance or quality.

Materials to avoid: Acidic material and metals and strong oxidizers. Sodium azide may

react with metallic plumbing and form explosive metal azides.

Hazardous decomposition products: Other decomposition products - no data available



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11. TOXICOLOGICAL INFORMATION Acute toxicity

Ingredient name	Result	Species	Dose	Exposure
Sodium chloride	LD50 Dermal LD50 Oral	Rabbit Rat	10000 mg/kg 3000 mg/kg	
	LDLo Intra-arterial	Guinea Pig	300 mg/kg	-

To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

Skin corrosion/irritation

Ingredient name	Result	Species	Score	Exposure	Observation
Sodium chloride	Eyes – Moderate irritant Eyes – Moderate irritant Skin – Mild irritant	Rabbit Rabbit Rabbit	-	24 hrs 100 mgs 10 mgs 24 hrs 500 mgs	-

Serious eye damage/eye irritation: no data available
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard: no data available

Potential health effects:

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Carcinogenicity None

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Reproductive toxicity None
Mutagenicity None
Sensitization None

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information: RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity

Ingredient name	Result	Species	Exposure
Sodium chloride	Acute EC50 2430000 µg/l Fresh water Acute EC50 28.85 mg/dm3 Fresh water Acute EC50 519.6 mg/l Fresh water Acute IC50 6.87 g/L Fresh water Acute LC50 1661 mg/l Fresh water Acute LC50 1000000 µg/l Fresh water Chronic LC10 781 mg/l Fresh water Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water	Algae – Navicula seminulum Algae – Pseudokirchneriella subcapitata Crustaceans – Cypris subglobosa Aquatic plants – Lemna minor Daphnia – Daphnia magna Fish – Morone saxatilitis – Larvae Crustaceans – Hyalella Azteca – Juvenile (Fledging, Hatchling, Weanling) Aquatic plants – Lemna minor Daphnia – Daphnia pulex Fish – Gambusia holbrooki - Adult	96 hours 72 hours 48 hours 96 hours 48 hours 96 hours 3 weeks 96 hours 21 days 8 weeks

Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

PBT and vPvB assessment:

Other adverse effects:

no data available
no data available
no data available

13. DISPOSAL CONSIDERATIONS

Disposal method: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.



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14. TRANSPORT INFORMATION

DOT (US) Hazard class:IMDG Hazard class:IATA Hazard class:Not dangerous goodsNot dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards: No known OSHA hazards

SARA 302 Components This product is not regulated under Section 302 of SARA and 40 CFR

Part 355.

SARA 313 Components (40 CFR Part 372): This product does not contain any of the substances on the

Toxic Chemicals List in 40 CFR Part 372.

SARA 311/312 Hazards

Ingredient name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Sodium chloride	0.1-1.0	No	No	No	Yes	No

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4): This product is not

reportable under 40 CFR Part 302.4

US Inventory/TSCA (Toxic Substances Control Act): Not listed on inventory

California Prop. 65 Components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Disclaimer: Not for Human Use

Further information

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