

## Kit Summary

**Product Cat #: 10623002,5**

**Product name** Double-stranded RNA (dsRNA) ELISA kit (K1 based)

### Kit Components:

#### Coating antibody

This item is not a hazardous substance and does not contain hazardous ingredients, substances with European Community workplace exposure limits or substances of very high concern (SVHC) above their respective disclosure limits nor does it contain GHS classified substances over 0.1%

#### Poly (I:C) dsRNA

This item is not a hazardous substance and does not contain hazardous ingredients, substances with European Community workplace exposure limits or substances of very high concern (SVHC) above their respective disclosure limits nor does it contain GHS classified substances over 0.1%

#### dsRNA-specific detecting antibody

This item is not a hazardous substance and does not contain hazardous ingredients, substances with European Community workplace exposure limits or substances of very high concern (SVHC) above their respective disclosure limits nor does it contain GHS classified substances over 0.1%

#### HRP-conjugated F(ab')<sub>2</sub> Fragment of goat-anti mouse secondary antibody

This item is not a hazardous substance and does not contain hazardous ingredients, substances with European Community workplace exposure limits or substances of very high concern (SVHC) above their respective disclosure limits nor does it contain GHS classified substances over 0.1%

#### TMB substrate solution

Chemical Name	CAS-No	Classification (Reg. 1272/2008)	REACH Registration Number
TMB (3,3',5,5'-tetramethylbenzidine)	54827-17-7	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available

### GHS / CLP - GHS - Classification

Not classified, no labelling applicable.

### **Hazard statements**

H335 - May cause respiratory irritation.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

### **Precautionary Statements - EU (§28, 1272/2008)**

P310 - Immediately call a POISON CENTER or doctor/ physician.

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P370 + P378 - In case of fire: Use foam for extinction.

P280 - Wear protective gloves/ eye protection/ face protection.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/ container to an approved waste disposal plant.

P233 - Keep container tightly closed.

### **Other information**

A safety datasheet follows for all potentially hazardous components – all other components are non-hazardous.

### **TRANSPORT INFORMATION**

Not regulated for transport.

# Safety Data Sheet

## Section 1: Product and Company Identification

**Product Name: TMB Substrate**

**Part Number: J0005**

Kit Catalog Number: 10623002, 10623005

Kit Product Name: Double-stranded RNA (dsRNA) ELISA kit (K1 based)

Recommended use: For research use only

Manufacturer:  
Exalpha Biologicals, Inc  
2 Shaker Road, Unit B101  
Shirley, MA 01464  
(978) 425-1370 (U.S.A.)

Emergency Telephone Numbers:  
Contact National Poison Information Center

## Section 2. Hazards Identification

### GHS-Classification

Ozone	Not applicable
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### GHS Label elements, including precautionary statements

Not dangerous.

### Other information

No information available.

## Section 3. Composition/Information on Ingredients

### 3.1 Substances

For the full text of the H-Statements mentioned in this Section, see Section 16

Chemical Name	CAS-No	Weight %	Classification (Reg. 1272/2008)
TMB (3,3',5,5'-tetramethylbenzidine)	54827-17-7	1-5	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)

## Section 4. First Aid Measure

**Eye contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

**Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Inhalation:** Move to fresh air.

**Ingestion:** Clean mouth with water. Drink plenty of water.

**Notes to physician:** Treat symptomatically.

## Section 5. Fire Fighting Measures

**Flammable properties:** Not flammable.

**Flash point:** not determined.

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

### Explosion Data

**Sensitivity to Mechanical Impact:** None.

**Sensitivity to Static Discharge:** None.

**Protective equipment and precautions for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear to prevent contact with skin and eyes.

## Section 6. Accidental Release Measures

**Personal precautions:** Ensure adequate ventilation.

**Environmental precautions:** Try to prevent the material from entering drains or water courses.

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Pick up and transfer to properly labeled containers.

## Section 7. Handling & Storage

**Advice on safe handling:** Handle in accordance with good industrial hygiene and safety practice.

**Technical measures/Storage conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place.

## Section 8. Exposure Controls and Personal Protection

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering measures:** Showers, Eyewash stations, Ventilation systems.

### Personal protective equipment

**Eye/face protection:** No special protective equipment required.

**Skin and body protection:** No special protective equipment required.

**Respiratory protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

## Section 9. Physical and Chemical Properties

**Appearance:** No information available.

**Odor Threshold:** No information available.

**pH:** No information available.

**Flash point:** No information available.

**Decomposition temperature:** No information available.

**Melting point/range:** No information available.

**Explosion limits:** No information available.

**Specific Gravity:** No data available.

**Evaporation rate:** No information available.

**Vapor density:** No data available.

**Odor<sub>SEP</sub>**: No information available.

**Physical State at 20°C:** No information available.

**Autoignition temperature:** No information available.

**Boiling point/boiling range:** No information available.

**Flammability Limits in Air:** No information available.

**solubility:** No information available.

**Vapor Pressure at 20°C (kPa):** No information available.

**VOC Content (%):** Not applicable.

## Section 10. Stability and reactivity

**Stability:** Stable under recommended storage conditions.

**Incompatible products:** None known based on information supplied.

**Conditions to avoid:** None known based on information supplied.

**Hazardous decomposition products:** None known based on information supplied.

**Hazardous polymerization:** Hazardous polymerization does not occur.

## Section 11. Toxicological Information

### Acute toxicity

**Product Information:** Product does not present an acute toxicity hazard based on known or supplied information.

### Chronic toxicity

**Target Organ Effects:** None known.

## Section 12. Ecological Information

**Ecotoxicity:** The environmental impact of this product has not been fully investigated.

## Section 13. Disposal Considerations

**Waste disposal methods:** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging:** Do not re-use empty containers.

## Section 14. Transport Information

**DOT:** Not dangerous goods.

**IATA:** Not dangerous goods.

**ADR:** Not dangerous goods.

## Section 15. Regulatory Information

### U.S. Federal Regulations

**SARA 313:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

**Acute Health Hazard** no

**Chronic Health Hazard** no

**Fire Hazard** no

**Sudden Release of Pressure Hazard** no

**Reactive Hazard** no

**Clean Water Act:** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA:** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active/Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as amended Feb 2021 or are otherwise exempt, or regulated by other agencies such as FDA or FIFRA

### International Regulations

**WHMIS Note:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## Section 16. Other information



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**Full text of H-Statements referred to under sections 2 and 3**

H335 - May cause respiratory irritation.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

**Version 0.1**

**Revision Date** August 11<sup>th</sup> 2021

**Revision Note** No information available.

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