

SAFETY DATA SHEET

Multisciences Human TNF-β/Lymphotoxin-α ELISA Kit

Section 1. Identification

GHS product identifier Code: Multisciences Human TNF-β/Lymphotoxin-α ELISA Kit, EK1139

Other means of identification: Not available

Trade name: Human TNF-β/Lymphotoxin-α ELISA Kit

Supplier/Manufacturer 108 Xiang Yuan Road, Gongshu Intellect Information Industry Park, Hangzhou

In case of emergency: Multisciences: 400-6721-600

Section 2. Hazards identification

OSHA/HCS status:	Multi
USHA/HUS Status.	

tisciences anti-Human TNF-β detect

antibody(100X)

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910, 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for

employees and other users of this product.

Multisciences Human TNF-β Standard (lyophilized) While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910, 1200), this MSDS contains valuable information critical to the safe handling and proper use of

> the product. This MSDS should be retained and available for employees and other users of this product.

Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for

employees and other users of this product.

Multisciences Streptavidin-HRP (100x) and

Multisciences Stop Solution

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for

employees and other users of this product.

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for

employees and other users of this product.

Classification of the substance or mixture:

Multisciences anti-Human TNF-β detect

antibody(100X)

Not classified.

Multisciences Human TNF-β Standard (lyophilized) Not classified. Multisciences PBS Buffer with Tween 20 (Assay, Not classified

Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Not classified

Not classified.

Multisciences Stop Solution

GHS label elements Signal word

Multisciences anti-Human TNF-β detect

antibody(100X)

No signal word.

Multisciences Human TNF-β Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay,

No signal word No signal word

Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and Substrate Reagent Multisciences Stop Solution

No signal word No signal word

Hazard statements

Multisciences anti-Human TNF- β detect antibody(100X)

No known significant effects or critical hazards.

Multisciences Human TNF-β Standard (lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and

No known significant effects or critical hazards. No known significant effects or critical hazards.

Substrate Reagent

No known significant effects or critical hazards.

Multisciences Stop Solution

No known significant effects or critical hazards.

Precautionary statements General

Multisciences anti-Human TNF-β detect antibody(100X)

Multisciences Human TNF-β Standard (lyophilized)

Not applicable.

Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

Not applicable.

Not applicable.

SDS, Multisciences Human TNF- β /Lymphotoxin- α ELISA Kit V1



	Multisciences Streptavidin-HRP (100x) and	Not applicable.
	Substrate Reagent	тос аррпсавіе.
	Multisciences Stop Solution	Not applicable.
Prevention	Multisciences anti-Human TNF-β detect antibody(100X)	Not applicable.
	Multisciences Human TNF-β Standard (lyophilized)	Not applicable.
	Multisciences PBS Buffer with Tween 20 (Assay,	Not applicable.
	Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	Multisciences Stop Solution	Not applicable.
Response	Multisciences anti-Human TNF-β detect antibody(100X)	Not applicable.
	Multisciences Human TNF-β Standard (lyophilized)	Not applicable.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	Multisciences Stop Solution	Not applicable.
Storage	Multisciences anti-Human TNF-β detect	Not applicable.
Storage	antibody(100X) Multisciences Human TNF-β Standard (lyophilized)	Not applicable.
	Multisciences PBS Buffer with Tween 20 (Assay,	Not applicable.
	Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	Multisciences Stop Solution	Not applicable.
Disposal	Multisciences anti-Human TNF-β detect antibody(100X)	Not applicable.
	Multisciences Human TNF-β Standard (lyophilized)	Not applicable.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not applicable. Not applicable.
	Substrate Reagent	
	Multisciences Stop Solution	Not applicable.
Supplemental label elements	Multisciences anti-Human TNF-β detect antibody(100X)	None known.
	Multisciences Human TNF-β Standard (lyophilized)	None known.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	Multisciences Streptavidin-HRP (100x) and	None known.
	Substrate Reagent Multisciences Stop Solution	None known.
Hazards not otherwise classified	Multisciences anti-Human TNF- β detect antibody(100X)	None known.
	Multisciences Human TNF-β Standard (lyophilized)	None known.
	Multisciences PBS Buffer with Tween 20 (Assay,	None known.
	Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	None known.
	Substrate Reagent Multisciences Stop Solution	None known.
	wattisciences Stop Solution	NONE KNOWN.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

 Ingredient name
 %
 CAS number

 Multisciences Human TNF-β Standard
 99.9-100

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

SDS, Multisciences Human TNF- β /Lymphotoxin- α ELISA Kit V1

Eye contact	Multisciences anti-Human TNF-β detect antibody(100X)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.
	Multisciences Human TNF-β Standard (lyophilized)	Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Multisciences Stop Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	Multisciences anti-Human TNF- β detect antibody(100X) Multisciences Human TNF- β Standard (lyophilized)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for hoostbing. Cet medical attention if companying security.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent	for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Multisciences Stop Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	Multisciences anti-Human TNF- β detect antibody(100X) Multisciences Human TNF- β Standard (lyophilized)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated states and shoes. Cet medical attention if symptoms contaminated
	Multisciences PBS Buffer with Tween 20 (Assay,	clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated
	Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated
	Substrate Reagent Multisciences Stop Solution	clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Multisciences anti-Human TNF- β detect antibody(100X)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Multisciences Human TNF-β Standard (lyophilized)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Multisciences Stop Solution	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Most important symptoms/effects	, acute and delayed Potential acute hea	
Eye contact	Multisciences anti-Human TNF-β detect antibody(100X) Multisciences Human TNF-β Standard (lyophilized)	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Multisciences PBS Buffer with Tween 20 (Assay,	No known significant effects or critical hazards.
	Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	Multisciences Stop Solution	No known significant effects or critical hazards.
Inhalation	Multisciences anti-Human TNF-β detect antibody(100X)	No known significant effects or critical hazards.
	Multisciences Human TNF-β Standard (lyophilized)	No known significant effects or critical hazards.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No known significant effects or critical hazards.

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Multisciences Streptavidin-HRP (100x) and No known significant effects or critical hazards. Substrate Reagent Multisciences Stop Solution No known significant effects or critical hazards. No known significant effects or critical hazards. Skin contact Multisciences anti-Human TNF-β detect antibody(100X) Multisciences Human TNF-β Standard (lyophilized) No known significant effects or critical hazards. Multisciences PBS Buffer with Tween 20 (Assay, No known significant effects or critical hazards. Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and No known significant effects or critical hazards. Substrate Reagent Multisciences Stop Solution No known significant effects or critical hazards. Multisciences anti-Human TNF- β detect No known significant effects or critical hazards. Ingestion antibody(100X) Multisciences Human TNF-β Standard (lyophilized) No known significant effects or critical hazards. Multisciences PBS Buffer with Tween 20 (Assay, No known significant effects or critical hazards. Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and No known significant effects or critical hazards. Substrate Reagent Multisciences Stop Solution No known significant effects or critical hazards. Over-exposure signs/symptoms Multisciences anti-Human TNF-β detect No specific data. Eye contact Multisciences Human TNF-β Standard (lyophilized) No specific data. Multisciences PBS Buffer with Tween 20 (Assay, No specific data. Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and No specific data. Substrate Reagent Multisciences Stop Solution No specific data. Inhalation Multisciences anti-Human TNF- β detect No specific data. antibody(100X) Multisciences Human TNF-β Standard (lyophilized) No specific data. Multisciences PBS Buffer with Tween 20 (Assay, No specific data. Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and No specific data. Substrate Reagent Multisciences Stop Solution No specific data. Multisciences anti-Human TNF-β detect No specific data. Skin contact antibody(100X) Multisciences Human TNF-β Standard (lyophilized) No specific data. Multisciences PBS Buffer with Tween 20 (Assay, No specific data. Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and No specific data. Substrate Reagent Multisciences Stop Solution No specific data. Multisciences anti-Human TNF-β detect No specific data. Ingestion antibody(100X) No specific data. Multisciences Human TNF-β Standard (lyophilized)

Indication of immediate medical attention and special treatment needed, if necessary, see toxicological information (Section 11)

Notes to physician Specific treatments Protection of first-aiders $Treat \, symptomatically. \, Contact \, poison \, treatment \, specialist \, immediately \, if \, large \, \, quantities \, have \, been \, ingested \, or \, inhaled. \, and \, in the property of the prope$

No specific data.

No specific data.

No specific data.

No specific treatment

Diluent or Washing buffer)

Substrate Reagent Multisciences Stop Solution

No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Multisciences anti-Human TNF-ß detect

antibody(100X)

Multisciences Human TNF-β Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay,

Multisciences PBS Buffer with Tween 20 (Assay,

Multisciences Streptavidin-HRP (100x) and

Diluent or Washing buffer)

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

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Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences Stop Solution

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

Multisciences anti-Human TNF-β detect

antibody(100X)

Multisciences Human TNF-β Standard (lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences Stop Solution

None known.

None known.

None known.

None known.

None known

Specific hazards arising from the chemical

Multisciences anti-Human TNF-β detect

antibody(100X)

In a fire or if heated, a pressure increase will occur and the container

Multisciences Human TNF-β Standard (lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences Stop Solution

In a fire or if heated, a pressure increase will occur and the container In a fire or if heated, a pressure increase will occur and the container may burst

In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the container

may burst.

Hazardous thermal decomposition products Multisciences anti-Human TNF-β detect

antibody(100X)

Multisciences Human TNF-β Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and Substrate Reagent

Multisciences Stop Solution

No specific data.

No specific data. No specific data.

No specific data.

No specific data.

Special protective actions for fire-fighters

Multisciences anti-Human TNF-β detect

antibody(100X)

Multisciences Human TNF-β Standard (lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and Substrate Reagent

Multisciences Stop Solution

Promptly isolate the scene by removing all persons from the vicinity

of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Promptly isolate the scene by removing all persons from the vicinity

of the incident if there is a fire. No action shall be taken involving

any personal risk or without suitable training.

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any personal risk or without suitable training.

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any personal risk or without suitable training.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving

any personal risk or without suitable training.

Special protective equipment for fire-fighters

Multisciences anti-Human TNF-β detect

antibody(100X)

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece

Multisciences Human TNF-B Standard

(Ivophilized)

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Multisciences PBS Buffer with Tween 20

(Assay, Diluent or Washing buffer)

Fire-fighters should wear appropriate protective equipment and self-

contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences Stop Solution

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece

operated in positive pressure mode.

operated in positive pressure mode.

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".



Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling
Protective measures

Multisciences anti-Human TNF- β detect antibody(100X)

Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).

Protective measures

Multisciences Human TNF-β Standard (lyophilized) Multisciences PBS Buffer with Tween 20

(Assay, Diluent or Washing buffer)
Multisciences Streptavidin-HRP (100x) and
Substrate Reagent

Multisciences Stop Solution

Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).

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8). Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

Multisciences anti-Human TNF- β detect antibody(100X)

Multisciences Human TNF-β Standard (lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and Substrate Reagent

Multisciences Stop Solution

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage including any incompatibilities

Multisciences anti-Human TNF- β detect antibody(100X)

 $\label{eq:multisciences} \mbox{Multisciences Human TNF-}\beta \mbox{ Standard (lyophilized)}$

Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use.



Multisciences Streptavidin-HRP (100x) and Substrate Reagent

Multisciences Stop Solution

Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry,

Section 8. Exposure controls/personal protection

Control parameters Occupational exposure limits

None

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side- shields.

Skin protection

Hand protection **Body protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary

Other skin protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Respiratory protection

Section 9. Physical and chemical properties

Multisciences anti-Human TNF-β detect Physical state antibody(100X)

Multisciences Human TNF-β Standard Solid (lyophilized) Multisciences PBS Buffer with Tween 20 Liquid.

(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and

Substrate Reagent Multisciences Stop Solution

Liquid. Liquid.

Liquid.

Multisciences anti-Human TNF- β detect Not available.

Color

antibody(100X)



	Multisciences Human TNF-β Standard	Not available.
	(lyophilized) Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Odor	Multisciences anti-Human TNF-β detect	Not available.
	antibody(100X) Multisciences Human TNF-β Standard	Not available.
	(lyophilized) Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Flash point	Multisciences anti-Human TNF-β detect antibody(100X)	Not available.
	Multisciences Human TNF-β Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Auto-ignition temperature	Multisciences anti-Human TNF-β detect antibody(100X)	Not available.
	Multisciences Human TNF-β Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Flammable limits	Multisciences anti-Human TNF-β detect antibody(100X)	Not available.
	Multisciences Human TNF-β Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Molecular weight	Multisciences anti-Human TNF-β detect antibody(100X)	Not available.
	Multisciences Human TNF-β Standard	Not available.
	(lyophilized) Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Molecular formula	Multisciences anti-Human TNF-β detect	Not available.
	antibody(100X) Multisciences Human TNF-β Standard	Not available.
	(lyophilized) Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
рН	Multisciences anti-Human TNF-β detect	7.0-7.2
•	antibody(100X) Multisciences Human TNF-β Standard	Not available
	(lyophilized) Multisciences PBS Buffer with Tween 20	7.0-7.2
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	7.0-7.2
	Substrate Reagent Multisciences Stop Solution	1.1-1.3
	······································	-



Boiling/condensation point	Multisciences anti-Human TNF-β detect antibody(100X)	Not available.
	Multisciences Human TNF-β Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Melting/freezing point	Multisciences anti-Human TNF-β detect antibody(100X)	Not available.
	Multisciences Human TNF-β Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Relative density	Multisciences anti-Human TNF-β detect antibody(100X)	Not available.
	Multisciences Human TNF-β Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Vapor pressure	Multisciences anti-Human TNF-β detect	Not available.
	antibody(100X) Multisciences Human TNF-β Standard	Not available.
	(lyophilized) Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Vapor density	Multisciences anti-Human TNF-β detect antibody(100X)	Not available.
	Multisciences Human TNF-β Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Volatility	Multisciences anti-Human TNF-β detect	Not available.
	antibody(100X) Multisciences Human TNF-β Standard	Not available.
	(lyophilized) Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Evaporation rate	Multisciences anti-Human TNF-β detect	Not available.
	antibody(100X) Multisciences Human TNF-β Standard	Not available.
	(lyophilized) Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Viscosity	Multisciences anti-Human TNF-β detect	Not available.
	antibody(100X) Multisciences Human TNF-β Standard (Ivophilized)	Not available.
	(lyophilized) Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not available.



Multisciences Stop Solution Not available. Solubility Multisciences anti-Human TNF- β detect Not available. antibody(100X) Multisciences Human TNF-β Standard Not available. (lyophilized) Multisciences PBS Buffer with Tween 20 Not available. (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Not available. Substrate Reagent Multisciences Stop Solution Not available Multisciences anti-Human TNF-B detect Not available. Physical/chemical properties antibody(100X) comments Multisciences Human TNF-β Standard Not available. (lyophilized) Multisciences PBS Buffer with Tween 20 Not available. (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Not available. Substrate Reagent Multisciences Stop Solution Not available. Section 10. Stability and reactivity Multisciences anti-Human TNF- β detect No specific test data related to reactivity available for this product or Reactivity antibody(100X) its ingredients. Multisciences Human TNF-β Standard No specific test data related to reactivity available for this product or (lyophilized) its ingredients. Multisciences PBS Buffer with Tween 20 No specific test data related to reactivity available for this product or (Assay, Diluent or Washing buffer) its ingredients. Multisciences Streptavidin-HRP (100x) and No specific test data related to reactivity available for this product or its ingredients. Substrate Reagent Multisciences Stop Solution No specific test data related to reactivity available for this product or its ingredients. The product is stable. Chemical stability Multisciences anti-Human TNF-β detect antibody(100X) Multisciences Human TNF-β Standard The product is stable. (lyophilized) Multisciences PBS Buffer with Tween 20 The product is stable. (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and The product is stable. Substrate Reagent Multisciences Stop Solution The product is stable. Multisciences anti-Human TNF- β detect Under normal conditions of storage and use, hazardous reactions will Possibility of hazardous reactions antibody(100X) not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will Multisciences Human TNF-B Standard not occur. Under normal conditions of storage and use, hazardous (Ivophilized) reactions will not occur. Under normal conditions of storage and use, hazardous reactions will Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Multisciences Streptavidin-HRP (100x) and Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous Substrate Reagent reactions will not occur. Multisciences Stop Solution Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Multisciences anti-Human TNF- β detect No specific data. Conditions to avoid antibody(100X) No specific data. Multisciences Human TNF-β Standard (lyophilized) Multisciences PBS Buffer with Tween 20 No specific data (Assay, Diluent or Washing buffer) No specific data Multisciences Streptavidin-HRP (100x) and Substrate Reagent Multisciences Stop Solution No specific data

Incompatible materials

Multisciences anti-Human TNF- β detect antibody(100X)

No specific data



Multisciences Human TNF-β Standard (lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and

Substrate Reagent Multisciences Stop Solution No specific data.

No specific data.

No specific data

No specific data.

Hazardous decomposition products

Multisciences anti-Human TNF-β detect

antibody(100X)

Multisciences Human TNF-β Standard

(lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences Stop Solution

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects
Acute toxicity: Not available.
Irritation/Corrosion: Not available.
Sensitization: Not available.
Mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.

Specific target organ toxicity (single exposure): Not available. Specific target organ toxicity (repeated exposure): Not available.

Aspiration hazard: Not available.

Teratogenicity: Not available.

Information on the likely routes of exposure: Not available.

Potential acute health effects Eye contact: Not available. Inhalation: Not available. Skin contact: Not available. Ingestion: Not available.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Not available. Inhalation: Not available. Skin contact: Not available. Ingestion: Not available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure: Not available.
Potential immediate effects: Not available.
Potential delayed effects: Not available.
Long term exposure: Not available.
Potential immediate effects: Not available.

Potential immediate effects: Not available.

Potential chronic health effects:

General: Not available.

Carcinogenicity: Not available. Mutagenicity: Not available.



Teratogenicity: Not available.

Developmental effects: Not available. Fertility effects: Not available.

Numerical measures of toxicity Acute toxicity estimates: Not available.

Interactive effects: Not available. Other information: Not available.

Section 12. Ecological information

Toxicity: Not available.

Persistence and degradability: Not available. Bioaccumulative potential: Not available.

Mobility in soil

Soil/water partition: coefficient (Koc)

Multisciences anti-Human TNF-β detect antibody(100X)
Multisciences Human TNF-β Standard (Iyophilized)
Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)
Multisciences Streptavidin-HRP (100x) and Substrate Reagent
Multisciences Stop Solution
Not available.

Mobility: Not available.

Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
UN proper shipping name	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

Section 15. Regulatory information

U.S. Federal regulations: TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): Not determined.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed Clean Air Act Section 602 Class II Substances: Not listed DEA List I Chemicals (Precursor Chemicals): Not listed DEA List II Chemicals (Essential Chemicals): Not listed SARA 302/304 Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ (lbs)	(gallons)	SARA 304 R (lbs)	Q (gallons)
Multisciences Substrate Reagent with hydrogen peroxide	0-1	Yes.	1000	106.1	1000	106.1

SARA 304 RQ: 68292000 lbs / 31004568 kg SARA 311/312 Classification: Not applicable.

Composition/information on ingredients: No products were found.



State regulations

Massachusetts: None of the components are listed. New York: None of the components are listed. New Jersey: None of the components are listed. Pennsylvania: None of the components are listed.

Section 15. Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Canada

WHMIS (Canada)

Multisciences anti-Human TNF- β detect antibody(100X)

Multisciences Human TNF-β Standard

(Ivophilized)

Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences Stop Solution

Not controlled under WHMIS (Canada).

Canadian lists Canadian NPRI: None of the components are listed.

CEPA Toxic substances: None of the components are listed

Canada inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



History

Date of issue/Date of revision: 9/11/2016
Date of previous issue: No previous validation.

Version: 1

Section 16. Other information

Key to abbreviations:

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods



LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of
1978. ("Marpol" = marine pollution)

UN = United Nations Notice to reader

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