

# SAFETY DATA SHEET

# Multisciences Mouse TNF- $\alpha$ High Sensitivity ELISA Kit

# Section 1. Identification

GHS product identifier Code: Multisciences Mouse TNF-α High Sensitivity ELISA Kit, EK282HS Other means of identification: Not available Trade name: Mouse TNF-α High Sensitivity 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

Section 2. Hazards ident	ification	
OSHA/HCS status:	Multisciences anti-Mouse TNF-α detect antibody(100X) Multisciences Mouse TNF-α 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. 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
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	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.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	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 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.
Classification of the substance or mixture:	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	Not classified.
	Multisciences Mouse TNF-a Standard (lyophilized)	Not classified.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not classified.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not classified.
	Multisciences Stop Solution	Not classified.
GHS label elements Signal word	Multisciences anti-Mouse TNF-α detect antibody(100X)	No signal word.
	Multisciences Mouse TNF- $\alpha$ Standard (lyophilized)	No signal word.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No signal word.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	No signal word.
	Multisciences Stop Solution	No signal word.
Hazard statements	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	No known significant effects or critical hazards.
	Multisciences Mouse TNF- $\alpha$ 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.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	Multisciences Stop Solution	No known significant effects or critical hazards.
Precautionary statements General	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	Not applicable.
	Multisciences Mouse TNF- $\alpha$ Standard (lyophilized)	Not applicable.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	Multisciences Streptavidin-HRP (100x) and	Not applicable.

Substrate Reagent



	Multisciences Stop Solution	Not applicable.
Prevention	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	Not applicable.
	Multisciences Mouse TNF- $\alpha$ 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.
Response	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	Not applicable.
	Multisciences Mouse TNF-a 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-Mouse TNF- $\alpha$ detect antibody(100X)	Not applicable.
	Multisciences Mouse TNF- $\alpha$ 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.
Disposal	Multisciences anti-Mouse TNF-α detect antibody(100X) Multisciences Mouse TNE a Standard (keepiilized)	Not applicable. Not applicable.
	Multisciences Mouse TNF-α Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay,	Not applicable.
	Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not applicable.
	Substrate Reagent Multisciences Stop Solution	Not applicable.
	Multisciences stop solution	Not applicable.
Supplemental label elements	Multisciences anti-Mouse TNF-α detect antibody(100X)	None known.
	Multisciences Mouse TNF-α Standard (lyophilized)	None known.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	None known.
	Multisciences Stop Solution	None known.
Hazards not otherwise classified	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	None known.
	Multisciences Mouse TNF-α 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.

# Section 3. Composition/information on ingredients

Substance/mixture: Mixture		
Ingredient name	%	CAS number
Multisciences Mouse TNF-a 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



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Eye contact	Multisciences anti-Mouse TNF-α detect antibody(100X) Multisciences Mouse TNF-α Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent 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. 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. 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. 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. 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. 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-Mouse TNF-α detect antibody(100X) Multisciences Mouse TNF-α Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent Multisciences Stop Solution	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. 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. 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.
Skin contact	Multisciences anti-Mouse TNF-a detect antibody(100X) Multisciences Mouse TNF-a Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent Multisciences Stop Solution	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 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. 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 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-Mouse TNF-α detect antibody(100X) Multisciences Mouse TNF-α Standard (lyophilized) 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. 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. 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 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. 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/effect	ts, acute and delayed Potential acute he	
Eve contact	Multisciences anti-Mouse TNF-α detect	No known significant effects or critical hazards.
,	antibody(100X) Multisciences Mouse TNF-α 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 Substrate Reagent	No known significant effects or critical hazards.
	Multisciences Stop Solution	No known significant effects or critical hazards.
Inhalation	Multisciences anti-Mouse TNF-α detect antibody(100X) Multisciences Mouse TNF-α 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	No known significant effects or critical hazards.



	Substrate Reagent	
	Multisciences Stop Solution	No known significant effects or critical hazards.
Skin contact	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	No known significant effects or critical hazards.
	Multisciences Mouse TNF-α 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 Substrate Reagent	No known significant effects or critical hazards.
	Multisciences Stop Solution	No known significant effects or critical hazards.
Ingestion	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	No known significant effects or critical hazards.
	Multisciences Mouse TNF-a 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.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	Multisciences Stop Solution	No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	Multisciences anti-Mouse TNF-α detect antibody(100X) Multisciences Mouse TNF-α Standard (lyophilized)	No specific data. 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-Mouse TNF-α detect antibody(100X)	No specific data.
	Multisciences Mouse TNF- $\alpha$ Standard (lyophilized)	No specific data.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	Multisciences Stop Solution	No specific data.
Skin contact	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	No specific data.
	Multisciences Mouse TNF-a Standard (lyophilized)	No specific data.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	Multisciences Stop Solution	No specific data.
Ingestion	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	No specific data.
	Multisciences Mouse TNF-α Standard (lyophilized)	No specific data.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent Multisciences Stop Solution	No specific data. No specific data.
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indication of immediate medica	attention and special treatment needed	<ol> <li>if necessary, see toxicological information (Sectio</li> </ol>

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

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment
Protection of first-aiders	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-Mouse TNF-α detect antibody(100X)	Use an extinguishing agent suitable for the surrounding fire.
	Multisciences Mouse TNF-a Standard (lyophilized)	Use an extinguishing agent suitable for the surrounding fire.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Use an extinguishing agent suitable for the surrounding fire.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Use an extinguishing agent suitable for the surrounding fire.
	Multisciences Stop Solution	Use an extinguishing agent suitable for the surrounding fire.



Unsuitable extinguishing media	Multisciences anti-Mouse TNF-α detect antibody(100X) Multisciences Mouse TNF-α Standard (lyophilized)	None known. 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.
	Multisciences stop solution	None known.
Specific hazards arising from the chemical	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Multisciences Mouse TNF- $\alpha$ Standard (lyophilized)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	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
	Substrate Reagent	may burst.
	Multisciences Stop Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	No specific data.
	Multisciences Mouse TNF- $\alpha$ Standard (lyophilized)	No specific data.
	Multisciences PBS Buffer with Tween 20 (Assay,	No specific data.
	Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	Multisciences Stop Solution	No specific data.
Special protective actions for fire-fighters	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	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.
-	Multisciences Mouse TNF- $\alpha$ Standard (lyophilized)	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
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	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.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	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.
	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.
Special protective equipment for fire-fighters	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Multisciences Mouse TNF-α Standard (lyophilized)	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece approxed in positive pressure mode.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece
	Multisciences Stop Solution	operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self- contained 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).		



contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry,

#### Methods and materials for containment and cleaning up Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble Small spill 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. Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or Large spill 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 Multisciences anti-Mouse TNF-a detect Put on appropriate personal protective equipment (see Section 8). **Protective measures** antibody(100X) Put on appropriate personal protective equipment (see Section 8). Multisciences Mouse TNF-a Standard Put on appropriate personal protective equipment (see Section 8). (lyophilized) Put on appropriate personal protective equipment (see Section 8). Multisciences PBS Buffer with Tween 20 Put on appropriate personal protective equipment (see Section 8). (Assay, Diluent or Washing buffer) Put on appropriate personal protective equipment (see Section 8). Multisciences Streptavidin-HRP (100x) and Put on appropriate personal protective equipment (see Section 8). Substrate Reagent Put on appropriate personal protective equipment (see Section 8). Multisciences Stop Solution Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Multisciences anti-Mouse TNF-a detect Eating, drinking and smoking should be prohibited in areas where this Advice on general occupational material is handled, stored and processed. Workers should wash hands antibody(100X) hygiene 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. Multisciences Mouse TNF-a Standard Eating, drinking and smoking should be prohibited in areas where this (lyophilized) 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. Multisciences PBS Buffer with Tween 20 Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands (Assay, Diluent or Washing buffer) 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. Multisciences Streptavidin-HRP (100x) and Eating, drinking and smoking should be prohibited in areas where this Substrate Reagent 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. 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 Multisciences anti-Mouse TNF-a detect Store in accordance with local regulations. Store in original container Conditions for safe storage antibodv(100X) protected from direct sunlight in a dry, cool and well-ventilated area. including any incompatibilities 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. Multisciences Mouse TNF-a Standard Store in accordance with local regulations. Store in original container (lyophilized) 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. Multisciences PBS Buffer with Tween 20 Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, (Assay, Diluent or Washing buffer) 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



Multisciences Streptavidin-HRP (100x) and Substrate Reagent

Multisciences Stop Solution

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 evewear 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	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.
Body 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.
Other skin protection	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.
Respiratory protection	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.

## Section 9. Physical and chemical properties

,		
Physical state	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	Liquid.
	Multisciences Mouse TNF-α Standard (lyophilized)	Solid
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Liquid.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Liquid.
	Multisciences Stop Solution	Liquid.
Color	Multisciences anti-Mouse TNF-α detect antibody(100X)	Not available.
	Multisciences Mouse TNF-α 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.
Odor	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	Not available.
	Multisciences Mouse TNF-α 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.
Flash point	Multisciences anti-Mouse TNF-α detect antibody(100X)	Not available.
	Multisciences Mouse TNF-α 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.
Auto-ignition temperature	Multisciences anti-Mouse TNF-α detect antibody(100X)	Not available.
	Multisciences Mouse TNF-α 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-Mouse TNF- $\alpha$ detect antibody(100X)	Not available.
	Multisciences Mouse TNF-a Standard	Not available.
	(lyophilized) Multisciences PBS Buffer with Tween 20 (Assey Dilyopt on Mashing huffer)	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-Mouse TNF- $\alpha$ detect antibody(100X)	Not available.
	Multisciences Mouse TNF-α 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.
Molecular formula	Multisciences anti-Mouse TNF-α detect antibody(100X)	Not available.
	Multisciences Mouse TNF-α Standard (lyophilized)	Not available.
	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.
рН	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	7.0-7.2
	Multisciences Mouse TNF-α Standard (lyophilized)	Not available
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	7.0-7.2
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	7.0-7.2
	Multisciences Stop Solution	1.1-1.3
Boiling/condensation point	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	Not available.
	Multisciences Mouse TNF-α 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.
		No Toble
Melting/freezing point	Multisciences anti-Mouse TNF-α detect antibody(100X)	Not available.
	Multisciences Mouse TNF-α 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.
Relative density	Multisciences anti-Mouse TNF- $\alpha$ detect	Not available.
	antibody(100X) Multisciences Mouse TNF-α 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 pressure	Multisciences anti-Mouse TNF-α detect antibody(100X)	Not available.
	Multisciences Mouse TNF-α 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.
Vapor density	Multisciences anti-Mouse TNF- $\alpha$ detect	Not available.
	antibody(100X) Multisciences Mouse TNF-α 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.
Volatility	Multisciences anti-Mouse TNF-α detect antibody(100X)	Not available.
	Multisciences Mouse TNF-α 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.
Evaporation rate	Multisciences anti-Mouse TNF-α detect	Not available.
Lvaporation rate	antibody(100X) Multisciences Mouse TNF-α Standard	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.
Viscosity	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	Not available.
	Multisciences Mouse TNF-α 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.
Columbus Columbus	Multissionses opti Mouse TNF - dataat	Not available
Solubility	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	Not available.



SDS, Multisciences Mouse TNF- $\alpha$ Hig	h Sensitivity ELISA Kit V1	MULTI SCIENCES 联科生物
	Multisciences Mouse TNF-α Standard	Not available.
	(lyophilized) 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.
Physical/chemical properties comments	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	Not available.
	Multisciences Mouse TNF-α 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.
Section 10. Stability and rea	activity	
Reactivity	Multisciences anti-Mouse TNF-α detect antibody(100X)	No specific test data related to reactivity available for this product or its ingredients.
	Multisciences Mouse TNF-α Standard (lyophilized)	No specific test data related to reactivity available for this product or its ingredients.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific test data related to reactivity available for this product or 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.
Chemical stability	Multisciences anti-Mouse TNF- $\alpha$ detect antibody(100X)	The product is stable.
	Multisciences Mouse TNF-α Standard (lyophilized)	The product is stable.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	The product is stable.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	The product is stable.
	Multisciences Stop Solution	The product is stable.
Possibility of hazardous reactions	Multisciences anti-Mouse TNF-α detect antibody(100X)	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 Mouse TNF-α Standard (lyophilized)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use,
	Multisciences PBS Buffer with Tween 20	hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions
	(Assay, Diluent or Washing buffer)	will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	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 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.
Conditions to avoid	Multisciences anti-Mouse TNF-α detect antibody(100X)	No specific data.
	Multisciences Mouse TNF-α Standard (lyophilized)	No specific data.
	(Nophilized) Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	Multisciences Stop Solution	No specific data.

Incompatible materials	Multisciences anti-Mouse TNF-α detect antibody(100X)	No specific data.	
	Multisciences Mouse TNF-α Standard (lyophilized)	No specific data.	
	Multisciences PBS Buffer with Tween 20	No specific data.	
	(Assay, Diluent or Washing buffer)		



No specific data

No specific data.

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

# Hazardous decomposition products

Multisciences anti-Mouse TNF-α detect antibody(100X)

Multisciences Mouse TNF- $\alpha$  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

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. Teratogenicity: Not available. Specific target organ toxicity (single exposure): Not available. Specific target organ toxicity (repeated exposure): Not available. Aspiration hazard: 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 delayed effects: Not available. Potential chronic health effects: General: Not available. Carcinogenicity: Not available. Mutagenicity: Not available. Teratogenicity: Not available. Developmental effects: Not available.



Not available

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-Mouse TNF- $\alpha$  detect antibody(100X) Not available. Multisciences Mouse TNF-a Standard (lyophilized) Not available. Multisciences PBS Buffer with Tween 20 (Assay, Diluent Not available or Washing buffer)

Reagent

Multisciences Stop Solution

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.

Multisciences Streptavidin-HRP (100x) and Substrate

#### Section 14. Transport information

• UN number UN proper shipping name	DOT Classification Not available. Not available.	TDG Classification Not available. Not available.	Mexico Classification Not available. Not available.	ADR/RID Not available. Not available.	IMDG Not available. Not available.	IATA 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		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(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.

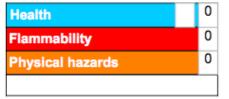


Pennsylvania: None of the components are listed. Section 15. Regulatory information International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol (Annexes A, B, C, E) Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Inform Consent (PIC) Not listed. **UNECE Aarhus Protocol on POPs and Heavy Metals** Not listed. Canada Multisciences anti-Mouse TNF- $\alpha$  detect Not controlled under WHMIS (Canada). WHMIS (Canada) antibody(100X) Multisciences Mouse TNF-a Standard Not controlled under WHMIS (Canada). (lyophilized) Multisciences PBS Buffer with Tween 20 Not controlled under WHMIS (Canada). (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Not controlled under WHMIS (Canada). 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 = Internediate 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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