

# SAFETY DATA SHEET

# Multisciences Human Vitronectin/VTN ELISA Kit

### Section 1. Identification

GHS product identifier Code: Multisciences Human Vitronectin/VTN ELISA Kit, EK1199

Other means of identification: Not available Trade name: Human Vitronectin/VTN 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:	Multisciences anti-Human VTN detect	While this material is not considered hazardous by the OSHA Hazard
USHA/HC3 status.		

antibody(100X) 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 VTN 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, While this material is not considered hazardous by the OSHA Hazard Diluent or Washing buffer) 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 Multisciences Substrate Reagent Communication Standard (29 CFR 1910. 1200), this MSDS contains

Not classified.

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-Human VTN detect antibody(100X)

Multisciences Human VTN Standard (lyophilized) Not classified.

Multisciences PBS Buffer with Tween 20 (Assay, Not classified

Diluent or Washing buffer) Multisciences Substrate Reagent Not classified Not classified.

Multisciences Stop Solution

**GHS** label elements Signal word

Multisciences anti-Human VTN detect

antibody(100X)

Multisciences Human VTN Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Substrate Reagent

Multisciences Stop Solution

No signal word. No signal word.

No signal word

No signal word

No signal word

Multisciences anti-Human VTN detect Hazard statements

antibody(100X)

Multisciences Human VTN Standard (Ivophilized) Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) Multisciences Substrate Reagent No known significant effects or critical hazards

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

No known significant effects or critical hazards. Multisciences Stop Solution No known significant effects or critical hazards

**Precautionary statements** General

Multisciences anti-Human VTN detect antibody(100X)

Not applicable.

Multisciences Human VTN Standard (lyophilized)

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

Not applicable. Not applicable. Not applicable.

Not applicable

Multisciences Stop Solution



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	trate Reagent	None known.
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classified antibody(100X)	Solution	
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Diluent or Washir	Solution	None known.
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# Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Ingredient name % **CAS** number

Multisciences Human VTN 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

Multisciences anti-Human VTN detect Eye contact antibody(100X)

upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Multisciences Human VTN Standard (lyophilized)

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

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

Multisciences 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.

Multisciences anti-Human VTN detect Inhalation

antibody(100X)

Multisciences Human VTN Standard (lyophilized)

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

Skin contact

Multisciences anti-Human VTN detect

antibody(100X)

Multisciences Human VTN Standard (lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) Multisciences 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.

Ingestion

Multisciences anti-Human VTN 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. 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

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

Multisciences Human VTN Standard (lyophilized)

Multisciences Substrate Reagent

Multisciences Stop Solution

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.

#### Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contact

Multisciences anti-Human VTN detect

antibody(100X)

Multisciences Human VTN Standard (lyophilized)

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

Multisciences Substrate Reagent Multisciences Stop Solution

No known significant effects or critical hazards.

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

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

Inhalation

Multisciences anti-Human VTN detect

antibody(100X)

Multisciences Human VTN Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) Multisciences Substrate Reagent Multisciences Stop Solution

No known significant effects or critical hazards.

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

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

Skin contact

Multisciences anti-Human VTN detect

antibody(100X)

Multisciences Human VTN Standard (lyophilized)

No known significant effects or critical hazards.

No known significant effects or critical hazards.



No known significant effects or critical hazards. Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Substrate Reagent No known significant effects or critical hazards. Multisciences Stop Solution No known significant effects or critical hazards.

Multisciences anti-Human VTN detect No known significant effects or critical hazards. Ingestion

antibody(100X)

Multisciences Human VTN 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 Substrate Reagent No known significant effects or critical hazards. No known significant effects or critical hazards. Multisciences Stop Solution

No specific data.

Over-exposure signs/symptoms

Multisciences anti-Human VTN detect No specific data. Eye contact

antibody(100X) Multisciences Human VTN Standard (Ivophilized) No specific data. Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) Multisciences Substrate Reagent No specific data. Multisciences Stop Solution No specific data.

Multisciences anti-Human VTN detect No specific data. Inhalation

antibody(100X) Multisciences Human VTN Standard (lyophilized) No specific data.

Multisciences PBS Buffer with Tween 20 (Assay, No specific data. Diluent or Washing buffer) Multisciences Substrate Reagent No specific data.

Multisciences Stop Solution No specific data.

Multisciences anti-Human VTN detect No specific data. Skin contact

antibody(100X) Multisciences Human VTN Standard (lyophilized) No specific data.

Multisciences PBS Buffer with Tween 20 (Assay, No specific data. Diluent or Washing buffer) No specific data. Multisciences Substrate Reagent Multisciences Stop Solution No specific data.

Multisciences anti-Human VTN detect No specific data. Ingestion

antibody(100X) Multisciences Human VTN Standard (lyophilized) No specific data.

Multisciences PBS Buffer with Tween 20 (Assay, No specific data. Diluent or Washing buffer) Multisciences Substrate Reagent No specific data. Multisciences Stop Solution No specific data.

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.

No specific treatment

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

# Section 5. Fire-fighting measures

Extinguishing media

Multisciences anti-Human VTN detect Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

antibody(100X) Multisciences Human VTN Standard (Ivophilized) Use an extinguishing agent suitable for the surrounding fire.

Multisciences PBS Buffer with Tween 20 (Assay, Use an extinguishing agent suitable for the surrounding fire. Diluent or Washing buffer)

Multisciences Substrate Reagent Use an extinguishing agent suitable for the surrounding fire. Multisciences Stop Solution Use an extinguishing agent suitable for the surrounding fire.

None known.

Multisciences anti-Human VTN detect None known. Unsuitable extinguishing media

antibody(100X) Multisciences Human VTN Standard (Ivophilized) None known. Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) Multisciences Substrate Reagent None known. Multisciences Stop Solution None known.

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Specific hazards arising from
the chemical

Multisciences anti-Human VTN detect antibody(100X)

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

Multisciences Human VTN 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,

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

Diluent or Washing buffer) Multisciences Substrate Reagent may burst. In a fire or if heated, a pressure increase will occur and the container

Multisciences Stop Solution

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

Hazardous thermal decomposition products Multisciences anti-Human VTN detect antibody(100X)

No specific data.

may burst.

Multisciences Human VTN Standard (lyophilized)

No specific data.

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

No specific data.

Multisciences Substrate Reagent Multisciences Stop Solution

No specific data. No specific data.

Special protective actions for fire-fighters

Multisciences anti-Human VTN 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. Promptly isolate the scene by removing all persons from the vicinity

Multisciences Human VTN Standard (lyophilized)

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

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

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 Substrate Reagent

Promptly isolate the scene by removing all persons from the vicinity

Multisciences Stop Solution

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.

Special protective equipment for fire-fighters

Multisciences anti-Human VTN 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 Human VTN Standard

(lyophilized)

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

Multisciences PBS Buffer with Tween 20

operated in positive pressure mode.

(Assay, Diluent or Washing buffer)

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

Multisciences Substrate Reagent

operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and selfcontained 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

**Environmental precautions** 

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".

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 VTN detect antibody(100X)

Multisciences Human VTN Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Substrate Reagent

Multisciences Stop Solution

Advice on general occupational hygiene

Multisciences anti-Human VTN detect antibody(100X)

Multisciences Human VTN Standard (lyophilized)

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

Multisciences Substrate Reagent

Multisciences Stop Solution

Conditions for safe storage including any incompatibilities

Multisciences anti-Human VTN detect antibody(100X)

Multisciences Human VTN Standard (lyophilized)

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

Multisciences 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). 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).

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).

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

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. 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

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

Other skin protection

involved and should be approved by a specialist before handling this product.

Respiratory 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. 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-Human VTN detect antibody(100X)	Liquid.
	Multisciences Human VTN Standard (lyophilized)	Solid
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Liquid.
	Multisciences Substrate Reagent	Liquid.
	Multisciences Stop Solution	Liquid.
Color	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Odor	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.



Flash point	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Auto-ignition temperature	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Flammable limits	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Molecular weight	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Molecular formula	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
рН	Multisciences anti-Human VTN detect antibody(100X)	7.0-7.2
	Multisciences Human VTN Standard (lyophilized)	Not available
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	7.0-7.2
	Multisciences Substrate Reagent	7.0-7.2
	Multisciences Stop Solution	1.1-1.3
Boiling/condensation point	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Melting/freezing point	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Relative density	Multisciences anti-Human VTN detect antibody(100X)	Not available.



	Multisciences Human VTN Standard	Not available.
	(lyophilized) Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Vapor pressure	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Vapor density	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Volatility	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Evaporation rate	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Viscosity	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Solubility	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Physical/chemical properties comments	Multisciences anti-Human VTN detect antibody(100X)	Not available.
	Multisciences Human VTN Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Section 10. Stability and re	eactivity	
Reactivity	Multisciences anti-Human VTN detect antibody(100X)	No specific test dits ingredients.

No specific test data related to reactivity available for this product or its ingredients.

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00	联科生物

Multisciences Human VTN Standard (lyophilized)

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

Multisciences Stop Solution

No specific test data related to reactivity available for this product or its ingredients

No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available for this product or its ingredients

No specific test data related to reactivity available for this product or its ingredients

## Chemical stability

Multisciences anti-Human VTN detect antibody(100X)

Multisciences Human VTN Standard (lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Substrate Reagent Multisciences Stop Solution

The product is stable.

The product is stable.

The product is stable. The product is stable.

The product is stable.

## Possibility of hazardous reactions

Multisciences anti-Human VTN detect antibody(100X)

Multisciences Human VTN Standard (lyophilized)

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

Multisciences Substrate Reagent

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.

Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

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-Human VTN detect antibody(100X)

Multisciences Human VTN Standard (lyophilized)

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

Multisciences Stop Solution

No specific data.

No specific data.

No specific data.

No specific data No specific data

# Incompatible materials

Multisciences anti-Human VTN detect antibody(100X)

Multisciences Human VTN Standard

(lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Substrate Reagent Multisciences Stop Solution

No specific data.

No specific data. No specific data.

No specific data. No specific data.

## Hazardous decomposition products

Multisciences anti-Human VTN detect antibody(100X)

Multisciences Human VTN Standard (lyophilized)

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

Multisciences Substrate Reagent

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.

Multisciences Stop Solution



## 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.
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 VTN detect antibody(100X)

Multisciences Human VTN Standard (lyophilized)

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

Not available.

Multisciences Substrate Reagent Not available.

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
	number proper shipping name	Not available. Not available.					
Pac	cking group	-	-	-	-	-	-
Env	vironmental hazards	No.	No.	No.	No.	No.	No.
Ad	ditional 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 F (lbs)	RQ (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 VTN detect

antibody(100X)

Multisciences Human VTN Standard (lyophilized) Multisciences PBS Buffer with Tween

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

Not controlled under WHMIS (Canada).

Not controlled under WHMIS (Canada).

Not controlled under WHMIS (Canada).



Multisciences Substrate Reagent Multisciences Stop Solution Not controlled under WHMIS (Canada). 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

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.