

MATERIAL SAFETY DATA SHEET

Deficient Plasma, Lyophilized (5-PLASMA)

5D-42102L	Human Alpha-2-Antiplasmin Deficient Plasma, Lyophilized
5D-42108L	Human Apolipoprotein H Deficient Plasma, Lyophilized
5D-42246L	Human Antithrombin-Heparin Cofactor II Deficient Plasma, Lyophilized
5D-42104L	Human Antithrombin Deficient Plasma, Lyophilized
5D-42128L	Human Factor XIII Deficient Plasma, Lyophilized
5D-42143L	Human Heparin Cofactor II Deficient Plasma, Lyophilized
5D-42150L	Human PAI-1 Deficient Plasma, Lyophilized
5D-42160L	Human Protein C Inhibitor Deficient Plasma, Lyophilized
5D-42158L	Human Protein C Deficient Plasma, Lyophilized
5D-42154L	Human Plasminogen Deficient Plasma, Lyophilized
5D-42226L	Human Prekallikrein Deficient Plasma, Lyophilized
5D-42162L	Human Protein S Deficient Plasma, Lyophilized
5D-42233L	Human TAFI Deficient Plasma, Lyophilized
5D-42174L	Human von Willebrand Factor Deficient Plasma, Lyophilized

Deficient Plasma, Frozen (5-PLASMA)

5D-42102F	Human Alpha-2-Antiplasmin Deficient Plasma, Frozen
5D-42108F	Human Apolipoprotein H Deficient Plasma, Frozen
5D-42246F	Human Antithrombin-Heparin Cofactor II Deficient Plasma, Frozen
5D-42104F	Human Antithrombin Deficient Plasma, Frozen
5D-42132F	Human Fibrinogen Deficient Plasma, Frozen
5D-42164F	Human Factor II Deficient Plasma, Frozen
5D-42113F	Human Factor IX Deficient Plasma, Frozen
5D-42116F	Human Factor V Deficient Plasma, Frozen
5D-42118F	Human Factor VII Deficient Plasma, Frozen
5D-42119F	Human Factor VIII Deficient Plasma, Frozen
5D-42121F	Human Factor X Deficient Plasma, Frozen
5D-42126F	Human Factor XI Deficient Plasma, Frozen
5D-42127F	Human Factor XII Deficient Plasma, Frozen
5D-42128F	Human Factor XIII Deficient Plasma, Frozen
5D-42143F	Human Heparin Cofactor II Deficient Plasma, Frozen
5D-42146F	Human Kininogen Deficient Plasma, Frozen
5D-42150F	Human PAI-1 Deficient Plasma, Frozen
5D-42158F	Human Protein C Deficient Plasma, Frozen
5D-42160F	Human Protein C Inhibitor Deficient Plasma, Frozen

5D-42154F	Human Plasminogen Deficient Plasma, Frozen
5D-42226F	Human Prekallikrein Deficient Plasma, Frozen
5D-42162F	Human Protein S Deficient Plasma, Frozen
5D-42233F	Human TAFI Deficient Plasma, Frozen
5D-42255F	Human TPA and PAI-1 Deficient Plasma, Frozen
5D-42250F	Human TPA Deficient Plasma, Frozen
5D-42174F	Human von Willebrand Factor Deficient Plasma, Frozen

Product Use: For Research Use Only.

Supplier

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Hazards Identification

POSSIBLE BIOHAZARD. Although this material was prepared with plasma collected from donors screened for CJD and which was tested at source and found negative for HBsAg, syphilis and antibodies to HIV and HCV and non-reactive for HIV-1 rNA and HCV rNA by FDA approved tests, it should be handled by personnel trained in the proper procedures for handling potential viral contaminants. All wastes should be properly labeled and disposed of according to all international, national and local regulations.

Composition / Information on Ingredients

Chemical Name: Human Source Plasma

Hazards identification: Products derived from human plasma are potentially biohazardous material. Handle with caution as if capable of transmitting infectious agents.

CAS registry number: Not applicable

LD50 (species and route): Not applicable

LC50 (species and route): Not applicable

First Aid Measures

Eye and Skin Contact: In case of contact, immediately wash with soap and copious amounts of water. Consult a physician.

Inhalation: Not available

Ingestion: Drink a moderate amount of water and immediately notify medical personnel.

Fire Fighting Measures

Conditions of flammability: Not combustible

Means of extinction - suitable: Use extinguishing media appropriate for surrounding fire conditions
Means of extinction – not suitable: Not available

Protective Equipment: When extinguishing fires use breathing apparatus with an independent source of air

Upper flammable limit: Not available

Lower flammable limit: Not available

Auto-ignition temperature: Not available

Hazardous combustion products: Not available

Explosion data-sensitivity to mechanical impact: Not available

Explosion data-sensitivity to static charge: Not available

Accidental Release Measures

Personal precautions: Wear protective equipment.

Procedure to be followed in case of leak or spill: Wear protective equipment. Collect or absorb onto an inert material. Place in suitable container for prompt disposal. Label the container as to the potential hazard (viral). Spill areas can be decontaminated with 0.5% sodium hypochlorite, e.g. a 1:10 dilution of common household bleach, i.e. Chlorox, which is prepared fresh each month.

Handling and Storage

Handling procedures and equipment: Wear gloves. Avoid breathing dust or aerosols. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed when not in use. Storage requirements: Frozen: Store at -60°C or lower. Lyophilized: Store at 2-8°C.

Exposure Controls / Personal Protection

Specific engineering controls to be used: Not specified

Personal protective equipment to be used:

Eye: Wear safety goggles (or full face-shield) depending on risk of splashes;

Skin: Wear lab coat and gloves of plastic or rubber when risk of contact

Respiratory: None specified

Physical and Chemical Properties

Physical state:

Frozen: Should be in frozen state until use. Thaw to liquid prior to use.

Lyophilized: Solid. Should be reconstituted prior to use.

Odour & appearance:

Frozen: Yellowish, translucent.

Lyophilized: Pale yellow

Odour threshold: Not available

Specific gravity: Not available

Vapour Pressure: Not available

Vapour density: Not available

Evaporation rate: not available

Boiling point: not available

Freezing point: Not available

PH: Not available

Coefficient of water/oil distribution: Not available

Stability and Reactivity

Conditions under which the product is chemically unstable: Product is stable

Incompatibilities: None known

Conditions of reactivity: None known

Hazardous decomposition products: None known

Toxicological Information

Route of entry: Include skin absorption, inhalation and ingestion

Effects of acute exposure to product: May cause irritation. Potential viral infection. Although this material was prepared with plasma collected from donors screened for CJD and which was tested at source and found negative for HBsAg, syphilis and antibodies to HIV and HCV and non-reactive for HIV- 1 rNA and HCV rNA by FDA approved tests, it should be handled by

personnel trained in the proper procedures for handling potential viral contaminants.
Effects of chronic exposure to product: The chemical, physical and toxicological properties have not been thoroughly investigated
Exposure limits: Not available
Irritancy of product: see above
Sensitization to product: Not available
Carcinogenicity: Not available
Reproductive toxicity: Not available
Teratogenicity: Not available
Mutagenicity: Not available
Name of toxicologically synergistic products: Not available

Ecological Information

No data available

Disposal Considerations

Waste disposal: Autoclave at 121 degrees C or higher for 40 minutes or longer. Label the container with the hazard that was present. Dispose of by means that comply with all local, state and federal regulations.

Transport Information

Special shipping information:

Frozen: Ship frozen on dry ice.

Lyophilized: Ship at ambient or 2-8°C.

Regulatory Information

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the SDS contains all the information required by the *Controlled Products Regulations*.

Other Information

The above statements are provided for informational use only and are believed to be correct. 5-Diagnostics shall not in any event be liable for incidental, consequential, third party or special damages of any kind resulting from any handling, use or failure of the products or above information.

Prepared by the Quality Assurance department using SDS data from supplier of raw material.

Address any questions to 5-Diagnostics.

Date of preparation of the MSDS: February 17, 2016