

MATERIAL SAFETY DATA SHEET - MSDS

PRODUCT: Platelet-Rich Fibrin Collection Tube (No Anticoagulant, Contains Separator Gel)

Product category	Packaging Specification	Reference (Product code)
Biothérapie Pure-PRF	01 tube (single pack)	812
	25 tubes/ box	812-25
	50 tubes/ box	812-50
	100 tubes/ box	812-100
Biothérapie LP-PRF	01 tube (single pack)	813
	25 tubes/ box	813-25
	50 tubes/ box	813-50
	100 tubes/ box	813-100
Biothérapie LR-PRF	01 tube (single pack)	814
	25 tubes/ box	814-25
	50 tubes/ box	814-50
	100 tubes/ box	814-100
Biothérapie Classic PRF	01 tube (single pack)	817
	25 tubes/ box	817-25
	50 tubes/ box	817-50
	100 tubes/ box	817-100

Date

Prepared: 08/01/2026

Version: 1.0

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** Platelet-Rich Fibrin Collection Tube
- **Manufacturer/Supplier:** VNUHCM-US Stem Cell Institute
- **Address:** B2-3 Building, University of Science, quarter 6, Linh Xuan Ward, Ho Chi Minh City
- **Emergency Phone:** (+84) 28 3636 1206
- **Intended Use:** Single-use medical device for the collection and preparation of autologous blood samples for PRF extraction procedures, utilizing natural coagulation without anticoagulants.

SECTION 2: HAZARDS IDENTIFICATION

- **Classification:** Sterile product, does not contain anticoagulant.

- **Primary Hazards:**
 - **After blood draw:** The tube containing human blood becomes a high-risk biological material (Biological Risk Group 2). **The primary hazard stems from the blood sample**, which may contain infectious pathogens such as Hepatitis B, C, HIV, etc.
 - **Tube breakage:** May cause injury from glass/sharps and exposure to blood.
- **GHS Warning Symbols:** Use the "**Biological Hazard**" symbol for the tube after blood collection.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- **Construction:** Sterile medical plastic or glass tube, rubber stopper, vacuum.
- **Chemical Contents Inside:** **Contains no anticoagulant.**
- **Separator Gel Composition:** An inert silicone-based gel with intermediate density, used to more effectively separate the fibrin and blood cell layers during centrifugation.

SECTION 4: FIRST AID MEASURES

- **Inhalation:** Not applicable. Avoid inhaling gases or aerosols from blood sample if tube breaks.
- **Skin Contact (with blood):** Wash immediately with plenty of clean water and antibacterial soap. Disinfect and follow biological exposure protocols.
- **Eye Contact:** Rinse eyes immediately under gently flowing water or with eye wash solution for at least 15 minutes. Seek medical attention if necessary.
- **Ingestion:** Not applicable under normal conditions of use.
- **General Note:** For any incident involving blood exposure, report immediately and follow exposure control procedures.

SECTION 5: FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Use extinguishers appropriate for surrounding materials (powder, CO₂).
- **Special Hazards:** When burning, plastic tubes may produce toxic fumes (carbon monoxide, smoke).
- **Protective Equipment for Firefighters:** Use self-contained breathing apparatus (SCBA) and fire-retardant protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Wear full PPE: chemical-resistant gloves, safety goggles, lab coat, face mask.
- **Methods for Cleaning Up:**
 1. Absorb spilled liquid using inert absorbent material.

2. Collect into yellow infectious waste bag/container.
 3. Disinfect the area with an appropriate disinfectant solution.
 4. Wipe clean.
- **Note:** Handle broken pieces as medical sharps waste.

SECTION 7: HANDLING AND STORAGE

- **Handling:** Use aseptic technique. **Do not shake the tube after blood draw** due to the absence of anticoagulant. Blood will clot naturally.
- **Storage:**
 - Store at room temperature: 15–27°C
 - Store in a cool, dry place, protected from direct sunlight and high humidity.
 - Do not refrigerate.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Engineering Controls:** Handle in a controlled environment with emergency eye wash facilities.
- **Personal Protective Equipment (PPE):**
 - **Eye/Face Protection:** Safety goggles or face shield.
 - **Skin/Hand Protection:** Wear nitrile or latex medical gloves, lab coat.
 - **Respiratory Protection:** N95 mask when necessary.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Form/State:** Sealed tube, containing no liquid anticoagulant.
- **Color:** Opaque separator gel.
- **Odor:** Odorless.
- **pH:** Not applicable.
- **Specific Gravity:** Gel has intermediate density.
- **Endotoxin (EU/mL):** ≤ 1.0
- **Sterility:** Negative

SECTION 10: STABILITY AND REACTIVITY

- **Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** High temperature, direct sunlight.
- **Incompatible Materials:** None.
- **Hazardous Decomposition Products:** May produce carbon monoxide if incinerated.

SECTION 11: TOXICOLOGICAL INFORMATION

- **General Information:** Separator gel is inert, with no significant toxicity. Primary hazard originates from the blood sample.
- **Acute Toxicity:** Not applicable for the gel.
- **Irritation/Sensitization:** Gel is non-irritating.

SECTION 12: ECOLOGICAL INFORMATION

- **Ecotoxicity:** Low. Gel is inert and biodegradable.
- **Note:** Items containing blood must be handled as medical waste.

SECTION 13: DISPOSAL CONSIDERATIONS

- **Waste Disposal Method:** Comply with medical waste regulations.
 - **Unused tube:** Dispose of as general industrial waste.
 - **Tube containing blood:** **MUST** be treated as **INFECTIOUS WASTE**.
 - **Sharps:** Place in designated sharps container.

SECTION 14: TRANSPORT INFORMATION

- **Transport Code (UN/ID):** Not classified as dangerous goods if tube is empty.
- **Proper Shipping Name:** Medical device.
- **Special Precautions:** Store in a cool, dry place, protected from direct sunlight. Store at room temperature: 15–27°C. Do not refrigerate, avoid impact.

SECTION 15: REGULATORY INFORMATION

- **Safety and Health Regulations:** Comply with biosafety regulations.
- **Environmental Regulations:** Comply with medical waste disposal regulations.

SECTION 16: OTHER INFORMATION

- **References:** Information based on medical guidelines for PRF.
- **Revision Date:** 08/01/2026 (First version).
- **Disclaimer:** Information is for reference only. Users are responsible for ensuring compliance with all safety regulations.