



## MSDS –Control B Fetal Fibronectin Control Set (PN 00734)

### 1. CHEMICAL AND COMPANY IDENTIFICATION

**Product Identification:** Fetal Fibronectin Control Set (PN 00734)

**Trade Name/Chemical Family/Synonyms:** Control B

**Product Description:** Control B

**Product Use:** The Fetal Fibronectin Control Set consists of the following components: Controls A, B, and C. The control set is used for verification of the range of fetal fibronectin measured in patient specimens.

**Manufacturer:** Cytoc Corporation  
250 Campus Drive  
Marlborough, Massachusetts 01752  
USA  
Telephone: 800-442-9892

**EMERGENCY TELEPHONE NUMBERS:** (24 hours a day and 7 days a week)

**For Health/Transportation/Chemical Spills (Multilingual capabilities and free calls accepted)**  
Continental United States: (800) 424-9300  
Outside of continental United States: +(703) 527-3887

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical	CAS Registry #	Wt. %
Fetal Fibronectin Purified**	N/A	<1
Sodium Azide	26628-22-8	<1
Aprotinin	9087-70-1	<10

\*\* Potentially Biohazardous Material

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Reagents marked with \*\* are considered Potentially Biohazardous Material. The Control B contains material of human origin. The donors were tested and found to be negative for HIV 1, HIV 2, and HCV antibody and hepatitis B surface antigen using established methods.

The Control B contains human fetal fibronectin in a stable protein matrix with sodium azide as a preservative. Sodium azide is an irritant. Avoid contact with components containing azide.

#### Routes of exposure and Potential Health Effects:

**Inhalation:** May cause respiratory tract irritation.

**Eye Contact:** May irritate eyes.

**Skin Contact:** May irritate the skin.

**Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea, or vomiting.

**Target Organs:** Eyes, skin, respiratory system, gastrointestinal tract.

**Signs and Symptoms:** Signs may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Medical Conditions Aggravated by Exposure:** Asthma, allergies.



## MSDS –Control B Fetal Fibronectin Control Set (PN 00734)

**Chronic:** Repeated exposure may cause skin dryness or cracking.

### 4. FIRST AID MEASURES

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**Inhalation:** Move person to fresh air. If symptoms persist, obtain immediate medical attention.

**Eye Contact:** Immediately flush with clean water for at least 15 minutes. If irritation persists, obtain medical aid.

**Skin Contact:** Remove contaminated clothing and shoes. Flush affected area with copious amounts of water. If irritation or other symptoms are present, obtain immediate medical attention.

**Ingestion:** **Do Not Induce Vomiting.** Rinse out mouth with copious amounts of water (only if the person is conscious). Call a Poison Control Center or medical provider immediately.

**Notes to Physician:** Symptoms may be delayed.

### 5. FIRE FIGHTING MEASURES

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**Flammability:** Not flammable by OSHA / WHMIS criteria.

**Explosion Data:** Sensitivity of Mechanical impact: No data available.  
Sensitivity to Static Discharge: No data available.

**General Hazard:** The controls contain a very small percentage (0.5%) of sodium azide. Azide reacts with many heavy metals (e.g., copper, lead) to form explosive compounds. If the controls are being disposed of through plumbing, flush with a large volume of water. Flammable material. Heated material may form toxic and/or explosive vapors.

**Fire Fighting Instructions:** Wear full turnout gear with self-contained breathing apparatus. If material is not involved in fire, attempt to cool with water or remove from area.

**Fire Fighting Equipment:** Wear full turnout gear with self-contained breathing apparatus.

**Extinguishing Media:** Foam, water, carbon dioxide (CO<sub>2</sub>), dry chemical.

**Hazardous Combustion Products:** Oxides of carbon. Oxides of nitrogen.

**Special Information:** None

### 6. ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:** Use personal protection recommended in Section 8. Isolate area. Keep unnecessary personnel away.

**Environmental Precautions:** The controls contain sodium azide which may form potentially explosive metal azides with lead and copper plumbing. For disposal, reagent should be flushed with large volumes of water to prevent azide build up. Prevent runoff from entering waterways, sewers, and confined spaces.

**Methods for Containment:** Prevent further leakage or spillage if safe to do so. Absorb spills with sand, kitty litter, or vermiculite.

**Methods for Clean-Up:** Sweep up or gather material and place in appropriate container for disposal. Disinfect with standard laboratory disinfectant or autoclave. Avoid skin contact.

**Other Information:** Not available.



## MSDS –Control B Fetal Fibronectin Control Set (PN 00734)

### 7. HANDLING AND STORAGE

- Handling:** Follow universal precautions for handling potentially biohazardous material. Refer to the Directional Insert accompanying the PTDCheck Control Kit for further details concerning material of human origin. Wear recommended personal protective equipment. Avoid contact with skin and eyes. Do not eat or drink while using this product.
- Storage:** Store all reagents at 2-8° C. Keep out of reach of children. Keep away from food, drink, and animal feeding stuffs.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

- Engineering Controls:** Provide adequate general exhaust ventilation to minimize worker exposure.
- Personal Protective Equipment:**
- Eye/Face Protection:** Wear safety glasses with side shields.
  - Hand Protection:** Wear suitable gloves.
  - Skin and Body Protection:** Wear suitable protective clothing.
  - Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.
- General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practices.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|---|
| <b>Appearance:</b> Clear                                    | <b>Color:</b> Light yellow                      |
| <b>Odor:</b> Odorless                                       | <b>Physical State:</b> Liquid                   |
| <b>Specific Gravity (Water=1):</b> Not available            | <b>VOC Content, wt. %:</b> Not available        |
| <b>Solubility in Water:</b> Complete                        | <b>Vapor Density (Air=1):</b> Not available     |
| <b>Freezing Point (°F/°C):</b> Not available                | <b>Vapor Pressure mm/Hg:</b> Not available      |
| <b>Evaporation Rate:</b> Not available                      | <b>pH:</b> 7.5                                  |
| <b>Viscosity:</b> Not available                             | <b>Boiling Point (°F/°C):</b> Not available     |
| <b>Lower Flammability Limit:</b> Not available              | <b>Upper Flammability Limit:</b> Not available  |
| <b>Coefficient of Water/Oil Distribution:</b> Not available | <b>Auto-ignition Temperature:</b> Not available |

### 10. STABILITY AND REACTIVITY

- General Stability:** Stable.
- Incompatible Materials And Conditions To Avoid:** Metals, acids, oxidizers, and heat.
- Hazardous Decomposition Products:** Nature of combustion products is unknown. The controls contain chemicals in dilute amounts which, in concentrated form, are known to produce toxic fumes under fire conditions.
- Hazardous Polymerization:** No dangerous reactions known under conditions of normal use.



## MSDS –Control B Fetal Fibronectin Control Set (PN 00734)

### 11. TOXICOLOGICAL INFORMATION

#### Effects of Acute Exposure:

- Eyes:** May irritate eyes. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Skin:** May irritate skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
- Inhalation:** May cause respiratory tract irritation.

#### Effects of Chronic Exposure:

- Target Organs:** No data available.
- Chronic Effects:** Not hazardous by OSHA / WHMIS criteria.
- Carcinogenicity:** Not hazardous by OSHA / WHMIS criteria.
- Mutagenicity:** Controls contain a very small percentage (0.05%) of sodium azide. Concentrated sodium azide has been reported as a mutagen.
- Reproductive Effects:** Not hazardous by OSHA / WHMIS criteria
- Developmental Effects:** **Teratogenicity:** Not hazardous by OSHA / WHMIS criteria.  
**Embryotoxicity:** Not hazardous by OSHA / WHMIS criteria.
- Respiratory Sensitization:** Not hazardous by OSHA / WHMIS criteria.
- Skin Sensitization:** Not hazardous by OSHA / WHMIS criteria.
- Toxicologically Synergistic Materials:** No data available.

### 12. ECOLOGICAL INFORMATION

- Ecotoxicity:** This product is not expected to producer significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
- Persistence / Degradability:** No data available
- Bioaccumulation / Accumulation:** No data available
- Mobility in Environment:** No data available

### 13. DISPOSAL CONSIDERATION

- Disposal Instructions:** Comply with all applicable state, local and federal laws. Follow universal precautions for handling biohazardous waste if spill contains material of human origin.

### 14. TRANSPORTATION INFORMATION

Not hazardous by DOT and TDG criteria.

### 15. REGULATORY INFORMATION



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<b>USA:</b>	The MSDS was prepared pursuant to the Hazardous Communication Standard (29 CFR 1910.1200).
<b>Canada:</b>	This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations.
<b>WHMIS:</b>	Not controlled.
<b>State Issues:</b>	Not listed for California Proposition 65
<b>NFPA (National Fire Protection Association):</b>	Health – 0    Fire – 0    Reactivity – 0 Hazard Ratings: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme
<b>Foreign Chemical Inventories:</b>	All ingredients are listed on the chemical inventories of the following countries: Canada (DSL) Japan European Union Australia

### 16. OTHER INFORMATION

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<b>Current Issue Date:</b>	March, 2009
<b>Previous Issue Date:</b>	Initial Cytoc
<b>Other Information:</b>	None

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**Information Note:** Where no corresponding data was contained in manufacturer's MSDS, additional research is required and available upon request. THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OR HER OWN PARTICULAR USE.