

# BD Vacutainer®

CPT™ Mononuclear Cell Preparation Tube



Helping all people  
live healthy lives

One-step cell separation

# BD Vacutainer®

## CPT™ Mononuclear Cell Preparation Tube

The **only one-step, closed system for collection, mononuclear cell separation, and transportation**

The BD Vacutainer® CPT™ tube is a one-step, closed system for blood collection, mononuclear cell separation, and transportation. It is an evacuated tube containing an anticoagulant (either sodium citrate or sodium heparin) and a cell separation medium comprised of a polyester gel and a density gradient liquid. The polyester gel forms a stable barrier between the cell layers after centrifugation to allow for transportation to the site where testing is to be performed.

**All this – achieved in one tube!**

### Before Blood Collection



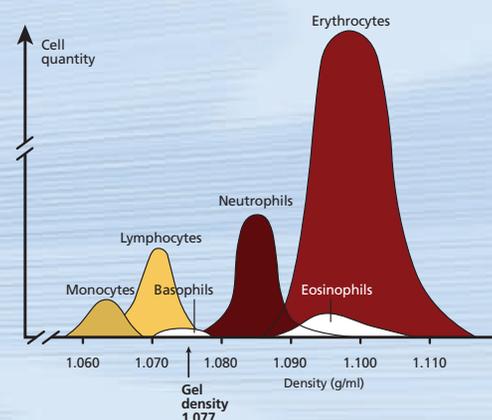
Anticoagulant  
Gel Barrier  
Density Gradient Fluid

### After Centrifugation



Plasma  
Lymphocytes & Monocytes  
Gel Barrier  
Erythrocytes & Neutrophils

### Mononuclear Cell Separation



### One-step Cell Separation

- › Separate mononuclear cells in a single step from whole blood
- › Standardize cell separation protocol
- › Obtain high mononuclear cell viability and yield
- › Transport separated cells in the same processed tube
- › Reduce risk of specimen contamination
- › Reduce biohazard exposure
- › For *In Vitro* Diagnostic use

# It's easy to Process BD Vacutainer® CPT™ Tubes

## 1

### Blood Collection

Use standard venipuncture procedure.



## 2

### Centrifugation

Gently invert 8 times before centrifugation at room temperature:  
 Heparin: 15 min.  
 Citrate: 20 min.  
 Horizontal rotor with swing-out head and appropriate tube adapters at 1500xg RCF.

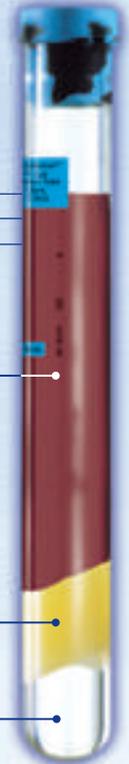
Note: For best results, centrifuge within 2 hours after blood collection, but no later than 24 hours after collection!

Acceptable blood volume:  
 8 mL  
 7 mL  
 6 mL

Anticoagulated Whole Blood

Gel Barrier

Density Gradient Fluid



## 3

### Result

Mononuclear cell separation is completed in one step, in the same tube!

Plasma  
 Lymphocytes & Monocytes  
 Gel Barrier  
 Erythrocytes & Neutrophils

Density Gradient Fluid

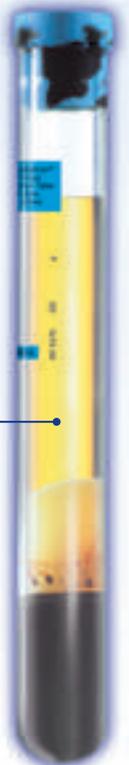


## 4

### Transportation

To re-suspend cells, gently invert one time before transportation.

Cell Suspension (plasma and mononuclear cells)



# BD Vacutainer®

## CPT™ Mononuclear Cell Preparation Tube

### Product Description

The BD Vacutainer® CPT™ tube is a closed, one-step system for blood collection, mononuclear cell separation and transportation. It is an evacuated tube containing an anticoagulant (either Sodium Citrate or Sodium Heparin) and a cell separation medium comprised of a polyester gel and a density gradient liquid.

The polyester gel forms a stable barrier between the cell layers after centrifugation to allow for transportation to the site where the assay is to be performed.

### Unique Benefits

- Separate mononuclear cells in a single step from whole blood
- Obtain high cell viability and yield
- Transport separated cells in the same processed tube
- Reduce risk of specimen contamination and biohazard exposure
- For *In Vitro* Diagnostic use

« BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company »



**Tubes CPT™ : Séparation des PBMC à partir de sang en 1 seule étape**

# OZYME

Des femmes et des hommes  
au service de vos recherches

Service client - commande : [commande@ozyme.fr](mailto:commande@ozyme.fr)

Service technique :  
Réactifs : 01 34 60 60 24 - [tech@ozyme.fr](mailto:tech@ozyme.fr)  
Instrumentation : 01 30 85 92 88- [instrum@ozyme.fr](mailto:instrum@ozyme.fr)

**Nous contacter**

**Liste des tubes CPT**

Référence	Désignation	Conditionnement	Taille du tube	Volume de l'échantillon	Anticoagulant	Couleur de bouchon	Norme
<b>BD362780</b>	Tubes BD Vacutainer Sterile "CPT" 16X125mm Hep.Sodium - Bouchon Rouge & Vert - Tubes en verre	60 Tubes	16 x 125 mm	8 ml	héparine	Bouchon rouge & vert	CE/IVD
<b>BD362781</b>	Tubes BD Vacutainer Sterile "CPT" 13X100 mm Citrate Sodium - Bouchon Bleu & Noir- Tubes en verre	60 Tubes	13 x 100 mm	4 ml	citrate de sodium	Bouchon bleu & noir	CE/IVD
<b>BD362782</b>	Tubes BD Vacutainer Sterile "CPT" 16X125 mm Citrate de Sodium - Bouchon Bleu & Noir- Tubes en verre	60 Tubes	16 x125 mm	8 ml	citrate de sodium	Bouchon bleu & noir	CE/IVD

A prélever impérativement avec une **unité de prélèvement à ailettes** disponible chez Ozyme