



CREATIVE BIOMART®

Diagnostic Proteins

## Swine Buffy Coat Preparation

### Product Information

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**Catalog**

BC-503S

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**ProductName**

Swine Buffy Coat Preparation

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**Short Name**

Buffy Coat(Swine)

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**similar**

Buffy Coat

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**Species**

Swine

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**Product Overview**

Swine Buffy Coat Preparation

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**Description**

Blood is a complex mixture of cells, proteins, metabolites and many other substances. About 56% of human blood volume is comprised of cells, more than 99% of which are erythrocytes. Human erythrocytes and thrombocytes (platelets, 0.5% blood components) do not contain nuclei. Leukocytes (0.3% of blood components), also referred to as peripheral blood mononuclear leukocytes or PBMC, do contain nuclei. Blood samples may vary widely in leukocyte (granulocytes, lymphocytes and monocytes) concentration depending on the health of the donor. Healthy blood contains less than 10E7 leukocytes per ml, while blood from an infected donor may have ten fold higher leukocyte concentrations. Buffy coat preparations are useful for researchers interested in immunology and infectious disease research.

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**Purity**

Buffy coat preparations are composed of leukocytes, trace amounts of red blood cells and

## Swine Buffy Coat Preparation

other components. Buffy coat preparations are separated after a single low-speed centrifugation to remove the platelet rich plasma, buffy coat layer and erythrocytes (RBC). If desired, you may further purify this preparation of leukocytes by sedimentation using gradient centrifugation.

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### Applications

Applications Notes: Buffy coat preparations are suitable for use as a source of nucleated PBMC. Buffy coat preparations are separated after a single low-speed centrifugation to remove the platelet rich plasma, buffy coat layer and erythrocytes (RBC). Buffy coat preparations are generally enriched for leukocytes (WBC) and contain trace amounts of red cells and other blood components. If desired, you may further purify this preparation of leukocytes by sedimentation using gradient centrifugation. This product is prepared in a buffer composed of 20.5 mg/mL Dextrose, 4.2 mg/mL Sodium Chloride, 8.0 mg/mL Citric Acid Tri-sodium, adjusted to pH 6.1.

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### Storage

Store vial at -70 centigrade or COLDER. For extended storage, aliquot contents to minimize freeze/thaw cycles.

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### Shipping

Dry Ice

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### Synonyms

Swine Buffy Coat Preparation

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### Physical State

Frozen Cell Pellet

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### Sterility

Non-sterile

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### Expiration

Expiration date is one (1) year from date of receipt.

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