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Datasheet for R605-0100

Guinea Pig Buffy Coat Preparation

Overview

Description:	Guinea Pig Buffy Coat Preparation - R605-0100
Item No.:	R605-0100
Size:	100 µL
Origin:	Guinea Pig

Product Details

Background:	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.
Synonyms:	Guinea Pig Buffy Coat Preparation
Species of Origin:	Guinea Pig

Target Details

Purity/Specificity:	Buffy coat preparations are composed of leukocytes, trace amounts of red blood cells and 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 Percoll™ gradient centrifugation.

Application Details

Application Note:	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 Percoll™ gradient centrifugation. This product is prepared in a buffer composed of 20.5 mg/ml Dextrose, 4.2mg/ml Sodium Chloride, 8.0 mg/ml Citric Acid Tri-sodium, adjusted to pH 6.1.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Physical State:	Frozen Cell Pellet
Buffer:	See application note.
Sterility:	Non-sterile

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -70° C or COLDER. For extended storage, aliquot contents to minimize freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

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