FAST, EASY, GENTLE!

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V 1.1

pluriBead®

Application Example

Clinical studies

pluriSelect

Clinical studies with pluriBead®

Introduction

pluriBead® allows for positive non-magnetic cell isolation from any sample material. The procedure is simple: Sieve the pluriBead® with bound target cells down a strainer; pluriBead® with your target cells stays on top, while the unwanted cells run through. After detaching, target cells are ready.

pluriBead® and clinical studies

When performing clinical studies or trials, sample material from your patients is rare. The ability to separate more than one cell type from the same complex sample enables a new variety of analysis for studies in clinical trials and clinical research.

Current methods for blood analysis are serviceable for immediate stabilization of the blood (PAXGene®), but analysis of single cell populations (magnetic cell sorting) is time and manpower consuming. A lot of important sample material is wasted.

Their shortcomings are numerous, but pluriBead® helps to overcome these deficits.

Current methods	pluriBead®
Limitation of possible targets (no proteins, viruses or microorganisms)	All types of targets, including proteins, viruses and microorganisms
Cost-intensive equipment, time-consuming procedure, high number of laboratory staff	No extra tools (except a mixer and a centrifuge), fast procedure, minimal staff requirement
PAXGene® and Tempus™ Blood RNA	
Very fast, but only for global analysis	Simple cell isolation within 10 - 30 minutes
Cells cannot be sorted after stabilization	Flow-through can be used for further isolation steps
Small sample volume (2 ml whole blood per tube)	Works with samples from 0.2 - 45 ml
Magnetic cell separation	
Only for one cell population No separation of different cell types	Different targets from one sample via differently sized catcher particles and strainers
Sample preparation needed	Direct application in whole blood and other biological sera

Key feature: Multi-target cell isolation with pluriBead®
Find both methods on the right.

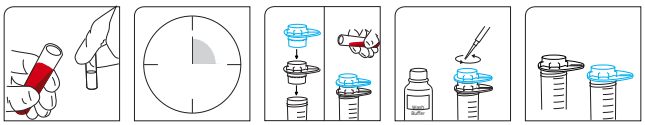
pluriBead® Cascade

Simultaneous isolation for two different targets

pluriBead® Cascade allows for the isolation of two cell types at the same time. Just combine S-pluriBead® and M-pluriBead®. Due to their different bead sizes, it is possible to incubate both at the same time and separate afterwards through different mesh sizes.

You need an S-pluriBead® Kit and a compatible M-pluriBead® Kit.

Cell separation scheme:



Labeling | Incubation | Isolation | Washing | Processing*

*After isolation and washing, both target cell types can be used for stabilization, lysis or detachment.

Application examples:

$CD4^+$, $CD8^+$ (helper T cell, cytotoxic T cell)
$CD3^+$, $CD19^+$ (T cell, B cell)
$CD14^+$, $CD15^+$ (monocyte, granulocyte)

pluriBead® Step by Step

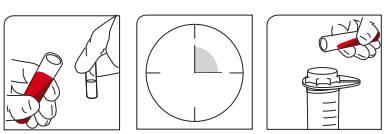
Sequential isolation for up to six different targets

pluriBead® Step by Step involves chain cell isolation with pluriBead® kits of various antibodies. This allows for the isolation of up to six different cell types from the same sample.

Cell separation scheme:

Labeling | Incubation | Isolation | Washing | Detachment

After each sieving step (isolation), you can already start to label the remaining sample for isolating a different cell type



Labeling | Incubation | Isolation

Application examples:

$CD3^+$, $CD14^+$, $CD15^+$, $CD19^+$ (T cell, monocyte, granulocyte, B cell)
$CD3^+$, $CD9^+$, $CD15^+$, $CD235a^+$ (T cell, platelet, granulocyte, RBC)
$CD4^+$, $CD8^+$, $CD19^+$ (helper T cell, cytotoxic T cell, B cell)