





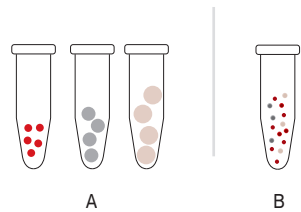


Cell culture		Whole blood	
Proteins		Bacteria	
Viruses		RNA/DNA	



pluriBead® and your sample material

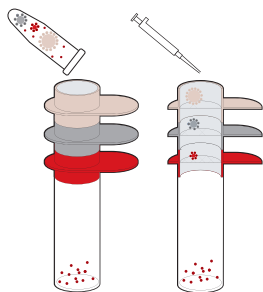
A - Isodiametrical beads: pluriBeads®. Each bead type has a target-specific antibody coating.

B - Sample (e.g. whole blood) containing different targets (cells, proteins, viruses, etc.).



Mixing and incubation

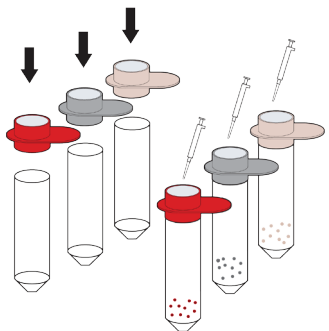
10–40 minutes incubation period of sample and pluriBeads® at room temperature.



Isolation

Targets – now attached to the beads – are separated using pluriSelects® proprietary sieving technology.

An additional washing step removes all unspecific contamination.



Bead detachment

Each cell type can be detached from the beads using detachment buffer.

Targets are washed off into sterile centrifuge tubes and are ready for your further experiments.

Proceed with a cell culture assay or lyse the cells for RNA/DNA/protein extraction!

FAST, EASY, GENTLE!

pluriBead®

**Cell isolation
in 10 minutes**

Fast, easy, gentle!

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Fast cell isolation using pluriBead®

You need a pure cell or protein population for your experiments? You like to get your targets fast and want a fuss-free isolation system?

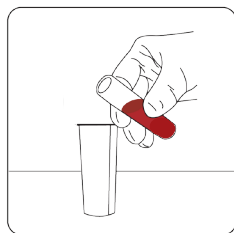
pluriBead® kit isolates a wide spectrum of targets, including cells or proteins from various samples such as whole blood, buffy coat or cell suspensions from homogenates (spleen, liver, lymph nodes, bone marrow, etc.).

Meet your experimental needs with pluriBead®

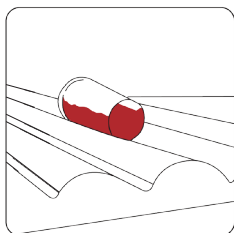
- ▶ **Sample material:** Isolate your cells or proteins from a wide spectrum of biological fluids such as cell culture, bone marrow, whole blood or cell suspensions from homogenates (spleen, liver, lymph nodes, etc.).
- ▶ **No centrifugation required:** Just add the pluriBeads® to your sample and incubate for 10–40 minutes at room temperature.
- ▶ **High purity:** From single cell suspensions such as whole blood, you will yield up to 99% target purity.
- ▶ **Save time:** The isolation is fast! Isolate cells for qPCR in less than 10 minutes or for cell culture experiments in less than 60 minutes.
- ▶ **High viability:** Reduced time and fewer handling steps ensure more than 90% viable cells.
- ▶ **Variable volume:** You can work with small and precious sample material from 0.3 ml to larger volumes up to 45 ml.
- ▶ **No cooling required:** You can work at room temperature during the entire protocol.

For more detailed information, please see www.pluriselect.com

The isolation procedure



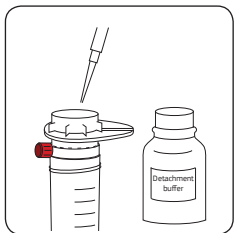
A
Combine sample and target specific pluriBeads® in a tube.



B
Incubate for 10–40 minutes with gentle agitation. pluriBeads® will now bind to the specific targets.



C
Attach a pluriStrainer® to a fresh 50 ml centrifuge tube. Pour the sample-bead suspension directly onto the strainer. Target cells bound to the beads remain on the strainer. Unlabeled cells run through.



D
Detach the target cells from the beads with our proprietary detachment buffer. Cells are now ready to use for your downstream experiments!

Your targets are now ready for your experiments:

- ▶ Isolation of RNA/DNA
- ▶ Isolation of proteins
- ▶ Cell culture experiments
- ▶ Cell stimulation experiments
- ▶ Flow cytometry analysis, etc.

Examples for isolation protocols

Isolate single cells from cell suspensions

Use pluriBead® to isolate cells from buffy coat, whole blood or tissue cultures. In a single step, cells are then detached from the beads in just 10 minutes – the viability remains above 90%. Fast, easy and gentle!

Isolate single cells directly from unprocessed whole blood

Mix fresh EDTA whole blood with pluriBeads® and incubate for up to 40 minutes. Pour the bead-sample mix onto the strainer and wash with buffer. That's it! For incubation, rinse the bead-bound cells into a cell culture dish.

Nucleic acid isolation within minutes

Incubate your sample with pluriBeads®. A 10-minute incubation will yield sufficient cells for a PCR experiment. Lyse the cells directly on the strainer and transfer the lysate to a suitable vial. Proceed with your nucleic acid isolation procedure as usual.

Protein isolation within minutes

Incubate your sample with pluriBeads®, isolate target cells and remove unbound cells by washing. Lyse the cells directly on the strainer and transfer the lysate to a suitable vial. Continue with your protein extraction method as usual.

Multi-target isolation via cascade sieving or step-by-step separation

Use our cascade sieving kit to isolate two distinct cell types from one sample in one step. Mix two types of pluriBeads®, e.g. CD4 & CD8, with your sample. Pour the sample onto the strainer cascade and rinse with wash buffer. Disassemble the strainer cascade and rinse the bead-bound cells from each strainer into a cell culture dish. You may also isolate nucleic acids or proteins.

For step-by-step separation, use the flow-through of the first separation as sample material for the second isolation. This way you will not lose any sample material.