innuPREP SE Blood&Eukaryotic Cells UHMW DNA Kit - KFFLX

The innuPREP SE Blood&Eukaryotic Cells UHMW DNA Kit - KFFLX has been designed for automated isolation of ultra high molecular weight (UHMW) from cultivated eukaryotic cells or peripheral blood mononuclear cells (PBMC) derived from fresh or frozen blood stabilized with EDTA, citrate or heparin based on a patented technology.

For blood samples the procedure starts with the lysis of erythrocytes and the subsequent pelleting of the PBMC's. After addition of 1 x PBS, the cells are resuspended and transferred into the Deep Well Plate. For cultivated eukaryotic cells no preliminary steps are necessary. The extraction process is based on adsorption of the genomic DNA on so called Smart Modified Surfaces and it needs no magnetic particles for DNA binding. That means, the DNA binds directly on the surface of the modified KingFisher Flex Tip Combs. After washing, the genomic DNA is eluted from the Smart Modified Surfaces and is ready for use for subsequent downstream applications.
The whole extraction process just needs simple mixing up and down of the modified Tip Combs. The process is very fast and gives no limitation regarding the binding capacity. So, the kit is optimized to get a maximum of yield and quality. The nucleic acids are submitted to minimal shearing forces and are thus of superior quality and very high molecular weight, thus ideally suited for size-sensitive downstream applications such das NanoPore or PacBio sequencing.

Automated high-throughput application: Purification of up to 96 samples using the KingFisher FLEX (Thermo Fisher Scientific)
High yield of ultra high molecular weight DNA
Enormous binding capacity without clotting

Product Name: innuPREP SE Blood&Eukaryotic Cells UHMW DNA Kit - KFFLX

Product details

High Throughput Device: KingFisher Flex / KFFLX

Extract: HMW DNA

Reactions: 96, 480 or 960 (KFFLX)

Sample type/Starting material: Blood, fresh or frozen
Eukaryotic cells

Specifications:

Starting material

0.5–5 ml whole blood (fresh or frozen) treated with EDTA, citrate or heparin.
Eukaryotic cells (up to 10exp7 cells)

Extraction Time

Lysis: depending on starting material
Extraction: approx. 60 min

Quality

1.7 – 2.0

Average Yield

Depends on sample and used volume

The online shop

Price: € 672.00
Content: 96 reactions
Please select packing 96 reactions ▼