

## Separating solutions

Separating solutions are used for the isolation of cells or cellular particles during density gradient centrifugation.

Biochrom AG offers two different separating solutions: Biocoll and Easycoll. These two solutions differ in the respectively contained polymer. Biocoll

separating solution does contain a polymer with a molecular weight of approx. 400000 Dalton. The basis of Easycoll is silica gel particles, coated with PVP (polyvinyl pyrrolidone).

The ready-made solutions are already preset on physiological values of osmolality and ph-value.

Tab. 35: Properties of Biocoll and Easycoll by comparison

Parameters	Biocoll + Amidotrizoic acid-Na-salt	Easycoll + PBS
<b>Viscosity</b>	3.6 cP at +20 °C	1.5 cP at +20 °C more preserving separation, better yield
<b>Cytotoxicity</b>	inhibition of mitosis following long contact, alteration of cell density	no inhibition, no density alterations
<b>Phagocytosis</b>	none	monocytes may ingest silicon particles, but are not activated

Fig. 4: Distribution of blood cells in a continuous density gradient

