

Whole blood processing kit

P06 – Plasma collection and whole blood stabilization

Preparation phase:

Aliquot cryogenic vials¹ with **Cytodelics Stabiliser equal the planned blood sample volume. Store at 5–8°C until sampling (up to 2 years). Identify dispensed volume on the label.**

Prepare and

Protocol:

1. Centrifuge a whole blood sample in the original collection tube at 1.000 – 2.000g/10-15 minutes.

Note: Meanwhile, bring tubes pre-filled with the Stabiliser to **room temperature** (5 – 10 minutes).

2. Collect separated plasma without disturbing the separated white blood cells and erythrocytes (approx. 50-75% of the column) and aliquot it according to your downstream application requirements.

Note: In case there are doubts that your plasma samples might be contaminated with cells, transfer to fresh tube, repeat the centrifugation. Separate and aliquot plasma without disturbing the pellet.

3. Replenish the volume of plasma removed from the tube with blood with PBS and gently resuspend.
4. Transfer equal **blood** volume to the cryogenic vial (RATIO 1:1).
5. **Mix** the blood sample with the Stabiliser **by flipping** the vial 10-15 times. **Do not** vortex!
6. Incubate at room temperature for 10 minutes.
7. Store the sample until further processing at:
 - a. **≤ -80°C** (up to 1 year);

¹ Choose cryogenic vial with nominal volume of approx. 3-times of the planned blood sample. Label tube at room temperature, before filling, to ensure optimal adhesion.

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- b. $\leq -20^{\circ}\text{C}$ (up to 2 months), then transfer to the ultra-low freezer ($\leq -80^{\circ}\text{C}$) as soon as possible and keep there until further processing (up to 1 year);
- c. or place on **dry ice** and transfer to to the ultra-low freezer ($\leq -80^{\circ}\text{C}$) as soon as possible and keep there until further processing (up to 1 year).

Note: After thawing, follow the instructions from P01 protocol:
“P01 - Processing after sample thawing.”