

E-Lysis-Solution 10x **100ml = 1000 Tests**

Solution for Red Blood Cell Lysis in flow cytometric analysis



Ref.: E-Lysis-100

1 test = 1ml **1x** E-Lysis-Solution

For research only. Not for use in diagnostic or therapeutic procedures.

MabTag's **E-Lysis-Solution is designed** for lysing red blood cells (RBC-Lysis) after or before immunostaining of peripheral blood cells with following flow cytometric analysis and contains appropriate 10x concentrated solution for 1000 tests of 1ml (1x) each. Red blood cell lysis will be lysed under hypotonic conditions including preservation of leukocytes by mild fixation.

MabTag's E-Lysis-Solution features

- *Fast and efficient – RBC-Lysis procedure can be performed in 20 minutes*
- *Enables immunostaining prior or after RBC-Lysis*
- *Softly fixed cells with conserved flow cytometric scatter properties*
- *Specific formulation for reducing background signals*
- *Quality control assures minimization of lot-to-lot variations*

Content	Volume per test	Storage	Stability
100 ml E-Lysis-Solution (10x)	1 ml (1x)	10 – 25°C	Closed vials: 3 years after delivery / Opened vials: 6 months

Procedure

Step	Incubation	Procedure
Preparing of working solution		Dilute the 10x stock solution to 1x working solution 1:10 with <u>distilled water</u> (1 part stock solution + 9 parts H ₂ O)
Adding of the test sample		Add 100 µl of the sample (blood, bone marrow sample or other cell suspension) into your test tube (≥ 5ml). The sample must be completely on the bottom of the tube.
Detection of surface markers*	15-30 min / RT	For immuno-staining add a sufficient volume (usually 1-20 µl depending on the manufacturer) of antibody solution into the sample, vortex and incubate.
RBC-Lysis	10-15 min / RT	Add 1 ml of the 1x E-Lysis-Solution to the test tube, vortex and incubate. Repeated vortex rounds within the incubation may optimize the RBC-Lysis
Washing		Add 2 ml PBS Centrifuge for 5 min at 400g → remove completely the supernatant
		Resuspend the pellet in approx. 0.5 ml PBS for analysis

* Detection of markers by immuno-staining can be performed after the RBC-Lysis as well provided that the used antibodies are capable to detect fixed antigens.

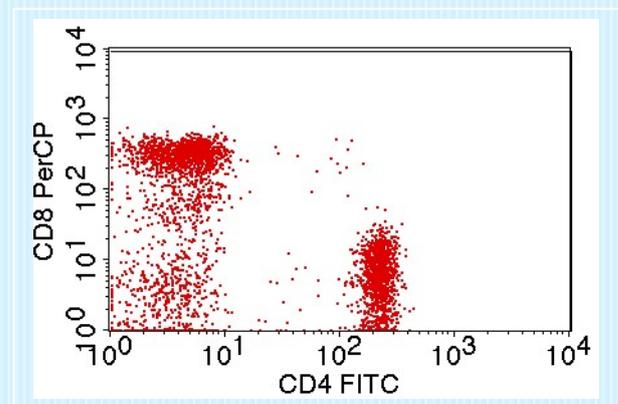
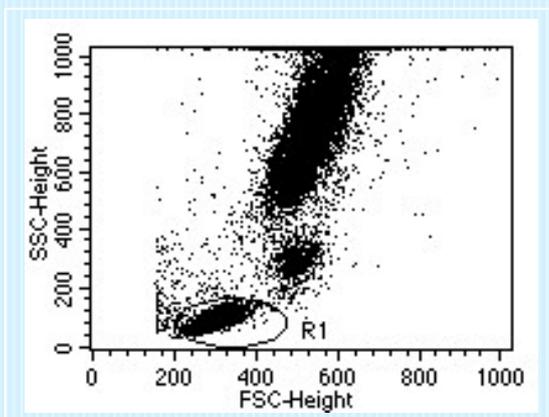
Hints & Limitations

- The solution is designed only for professional and experienced laboratory personnel which is well-versed in good laboratory practices.
- For correct cytometric analysis the flow cytometer must be perfectly aligned and compensated.
- Some antigens can be too sensitive to aldehyds.
- Some detection antibodies are not sufficient for fixed antigens.
- The technical insert has to be read completely before running the procedure.
- Lysis of erythrocytes of patients suffering from some diseases can be incomplete.
- Antibody staining at higher temperatures and longer incubations times can lead to higher non-specific background signal

Caution

For professional users only. MabTag's E-Lysis-Solution contains formaldehyde which is HARMFUL. Formaldehyde is toxic, allergenic and suspected carcinogens. Never pipette by mouth and avoid contact with eyes, skin and clothing. Users must be well instructed in the accurate working procedure, the dangerous properties of the product and the necessary safety instructions. Please refer to the Material Safety Data Sheet (MSDS) for additional information.

Dispose product remainders according to local regulations.



Example:

Detection of CD4+ and CD8+ lymphocytes in whole blood.