




## PRODUCT INFORMATION SHEET

### ***IQ Ery Perm Kit – reagents for fixation and permeabilization of erythrocytes***

#### **IQ Ery Perm Kit**

REF IQP-340  50 tests  
RUO **For Research Use Only**

#### **Kit content**

Name	Description	Volume
Reagent A	Fixative Solution (A) - Containing fetal bovine serum (FBS) and < 0.1% sodium azide	5 mL
Reagent B	Fixative Solution (B) - Containing buffered Formaldehyde    <b>DANGER</b>	5 mL
Reagent C	Permeabilization Solution (C) – Containing sodium dodecyl sulfate (SDS)	5 mL

**Summary** Detection of intracellular antigens or substrates often requires rapid fixation, followed by treatment with a permeabilizing reagent. IQ Ery Perm Kit is a kit including both fixating and permeabilizing reagents. The kit is composed of three reagents which utilize FBS and formaldehyde as the fixating components (Reagent A and B) and SDS as the permeabilizing component (Reagent C). This allows entry of antibodies and other probes. IQ Ery Perm is especially suitable for fixation and permeabilization of erythrocytes.

**Intended use** IQ Ery Perm Kit is intended for fixation and permeabilization of erythrocytes in order to prepare these cells for (intracellular) staining and subsequent analysis by flow cytometry.

**Applications** Fixation and permeabilization of erythrocytes for flow cytometry (intracellular staining)

**Availability** IQ Ery Perm Kit is provided as kit with three different reagents, each containing a volume of 5 mL. The kit is sufficient for 50 tests.

#### **IQ Ery Perm procedure**

##### **Working procedure**

1. It is recommended to work in a fume hood when using reagent B.
2. Use a 5 mL conical bottom centrifuge tube for each sample.
3. Add 100 µL reagent A to each tube.
4. Add 10 µL EDTA-anticoagulated whole blood and vortex.
5. Add 100 µL reagent B and vortex.
6. Incubate the vortexed cell suspension at room temperature for exactly 30 minutes. Vortex the suspension every 10 minutes and make sure there are no cells on the bottom of the tube.
7. Add 2 mL PBS and vortex the tubes.
8. Centrifuge the cell suspension at 300 g for 3 minutes (low brake).
9. Discard the supernatant.
10. Vortex the tube a few seconds and add 100 µL PBS. Vortex 3 seconds at maximum speed. Make sure the cell pellet is completely resuspended.
11. Add 100 µL reagent C and vortex. Reagent C should be at room temperature (any precipitates should be dissolved before use). Incubate the mixed cell suspension at room temperature for exactly 3 minutes.
12. After exactly 3 minutes: add 2 mL PBS and vortex the tubes.
13. Centrifuge the cell suspension at 300 g for 3 minutes (low brake).
14. Discard the supernatant.
15. Add 2 mL PBS and resuspend cell pellet by vortexing.
16. Centrifuge the cell suspension at 300 g for 3 minutes (low brake).
17. Discard the supernatant.
18. Resuspend the cell pellet in 1 mL PBS and resuspend the cells by vortexing. Make sure the cell pellet is completely resuspended.
19. Erythrocytes are now ready for staining.

---

**PRODUCT INFORMATION SHEET**

---

***IQ Ery Perm Kit – reagents for fixation and permeabilization of erythrocytes***

---

**Handling and Storage**

Upon receipt, store reagents at 2-8 °C. Avoid direct sunlight. Reagents stored according to stated storage instructions are stable until the expiration date indicated on the label. For repeatedly testing store the reagents immediately after usage at 2-8 °C.

**Reagent preparation**

All reagents should be at room temperature before use. Especially reagent C should be at room temperature (any precipitates should be dissolved before use).

**Precautions**











Follow proper laboratory procedure and precautions in accordance with federal, state, and local regulations when disposing of all materials. Reagents containing sodium azide may react with lead or copper plumbing to form explosive metal azides. On disposal, flush with large amounts of water to prevent azide build-up. Reagent B contains formaldehyde, a highly toxic allergenic and potentially carcinogenic reagent, which should be handled in accordance with good laboratory practices using appropriate precautions. Avoid skin or eye contact. For detailed information please find the Safety Data Sheet on: [www.iqproducts.nl](http://www.iqproducts.nl).

All biologic specimens and materials with which they come into contact are to be considered biohazards and should be handled as if capable of transmitting infection.

**Warranty** Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

---

**Explanation of used symbols**

	Description
	Catalogue number
	Caution, consult accompanying document
	Keep away from (sun)light
	Biological risks
	Temperature limitation (°C)
	Research Use Only
	Batch number
	Use by yyyy-mm-dd
	Manufacturer



IQ Products BV  
Rozenburglaan 13a  
9727 DL Groningen, The Netherlands

 +31 (0)50 57 57 000  
 Technical [marketing@iqproducts.nl](mailto:marketing@iqproducts.nl)  
 Orders [orders@iqproducts.nl](mailto:orders@iqproducts.nl)  
 [www.iqproducts.nl](http://www.iqproducts.nl)