




Technical Data Sheet

Whole blood processing kit



1. Store kit components properly after arrival

Storage	Kit component
 5 - 8 °C	Stabiliser* Fix-Concentrate
 +20 °C	Fix-Diluent LYSIS buffer (4x concentrated) WASH buffer (5x concentrated) CRYO#20
	All kit components are stable for 2 years if stored properly
*	Stabiliser is not part of "Fix&Lyse kit" (cat# WBFL002-XXXX)

2. Reconstitute LYSIS, and WASH buffer concentrates with diH₂O

LYSIS and WASH buffer reconstitution				
Buffer	Supplemented as	Concentrate-to-diH ₂ O volume ratio	Example (1 liter preparation)	
			Concentrate volume	diH ₂ O volume
LYSIS	4x concentrate	1:3	250 ml	750 ml
WASH	5x concentrate	1:4	200 ml	800 ml

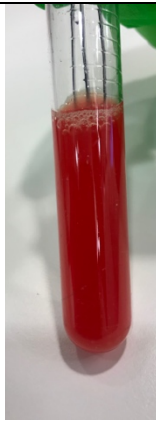





3. Prepare Fix buffer **prior to use** by mixing Fix-Concentrate and Fix-Diluent in ratio 1:1

4. Follow recommended scaling ratios:

Scaling up ratios			
Blood	1	: 1	Cytodelics Stabiliser
Blood	1	: 10	Fixation buffer
Blood	1	: 40	LYSIS buffer
Blood	1	: 40	WASH buffer
Blood	1	: 0.5 - 1	CRYO#20

Examples of recommended processing conditions						
Blood sample volume	Fix buffer volume	LYSIS buffer volume	WASH buffer volume	Recommended processing tube size		CRYO#20 volume
				First wash	All consequent washes	
100 µl	1.0 ml	4.0 ml	4.0 ml	10 - 15 ml	5-15 ml	100 µl
250 µl	2.5 ml	10 ml	10 ml	15 ml	15 ml	100 µl
500 µl	5.0 ml	20.0 ml	20.0 ml †	50 ml *	15 ml	250 µl
1.0 ml	10.0 ml	39.0 ml	40.0 ml †	50 ml *	15 ml	500 µl
<p>* To achieve optimal cell yields execute only first spin after Fix&Lyse step in 50 ml tube, aspirate to mark 5 ml or above (not below 5 ml mark), transfer to 15 ml tube and continue with altered WASH buffer volumes.</p> <p>† In case you decide to run all consequent processing steps in 15 ml tube, use 14 ml of WASH buffer and adjust number of washing steps based on pellet color. Typically, only one more washing step is required.</p>						

5. Guide on decision of RBCs lysis step duration:

Time after addition of LYSIS buffer						
	0 min	5-6 min	10 min	15 min	20 min	35 min
	No	No	No	OK	OK	OK
Conditions: Fresh whole blood fixed for 15 min at RT followed by addition of LYSIS buffer for indicated time						