

Buffer Suggestions for the Cell Sorting

Purpose and Details	Components	Basic Cell Sorting Buffer	Variations of the Basic Cell Sorting			Cell Sorting Buffer for Clean Lymphoid Cells
			For Sticky Cells	For Adherent Cells	For Samples with a Lot of Dead Cells	
Increase buffer capacity and stability	1x Phosphate Buffered Saline (DPBS, Ca/Mg++ free), pH 7.0-7.4	✓	✓	✓	✓	
	HEPES pH 7.0 (10-25 mM)	✓	✓	✓	✓	
	HBSS, with Calcium/Magnesium, no Phenol Red					✓
Chelating agent to prevent cell aggregation	EDTA (~ 5mM or 0.5%)		✓	✓		
Protein to maintain cell viability	BSA (Bovine Serum Albumin, 0.1-1%) or cation-free-FBS or FCS (dialyzed against Ca/Mg++ free DPBS, 1-5%)	✓	✓	✓	✓	
	FBS-HI (Fetal Bovine Serum Heat-Inactivated, 1%)					✓
Digestion of free DNA	DNAse-I (RNAse free; 10U/ml or 25-50ug/ml); add MgCl ₂ (1-5mM)				✓	
Sterility	Sterilize by 0.2um filtration, store at 4°C	✓	✓	✓	✓	✓
Additional Notes				Use cation-free FBS in order to stop the trypsin reaction	Keep DNAse in all the buffers through the sample preparation	