

Materials List for:

Developing Custom Chinese Hamster Ovary-host Cell Protein Assays using Acoustic Membrane Microparticle Technology

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Materials

Name	Company	Catalog Number	Comments
NHS-Chromogenic-biotin or NHS-Chromogenic Biotin Labeling kit			
If NHS-Chromogenic-biotin is purchased as a reagent the following additional materials will be required			
Water-miscible organic solvent such as dimethylsulfoxide (DMSO) or dimethylformamide (DMF)			
Phosphate buffered saline (PBS) or other amine free buffer (pH 7 – 9)			
Desalting columns or dialysis units for buffer exchange			
Spectrophotometer able to measure 354 and 280 nm – for measuring protein and biotin concentrations			
Biotinylated antibody (2-5 biotins/ Ab)			
Streptavidin magnetic beads	 BioScale		(10 mg/mL) ~10 ⁸ beads/mg
Magnet for microcentrifuge tubes	New England Biolabs	cat # S1510S	
Biotinylated BSA for blocking			
Phosphate buffered saline (PBS)			
PBS 0.1% Tween 20			
Vortex			
Microcentrifuge holder for Vortex or tube rotator			
Antibody or protein to be labeled			
NHS-Fluorescein or NHS-Fluorescein Labeling kit			
If NHS-Fluorescein is purchased as a reagent the following additional materials will be required			
Water-miscible organic solvent such as dimethylsulfoxide (DMSO) or dimethylformamide (DMF)			
50 mM borate, pH 8.5 or other amine free buffer (pH 7 – 9)			
Desalting columns or dialysis units for buffer exchange			

Measurement of protein and fluorescein concentrations requires a spectrophotometer able to measure 493 and 280 nm.			
Diluent	 BioScale		to dilute beads and FIAb
Sample Diluent	 BioScale		to dilute samples and calibrators
Running Buffer Additive	 BioScale		