

Materials List for:

# A High Throughput MHC II Binding Assay for Quantitative Analysis of Peptide Epitopes

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URL: <https://www.jove.com/video/51308>

DOI: [doi:10.3791/51308](https://doi.org/10.3791/51308)

## Materials

Name	Company	Catalog Number	Comments
Sodium Tetraborate Decahydrate	Sigma	221732	
Citric Acid	Sigma	C1901	
Dibasic Sodium Phosphate	Sigma	S7907	
Trizma HCl	OmniPur	9310	
Tween-20	Sigma	P7949	
100% DMSO	Sigma	D8418	
Octyl-β-D-Glucopyranoside	Fischer	29836-26-8	
Pefa Bloc SCF	Roche	1158591600	
Dulbecco's 10x Phosphate Buffered Saline	Invitrogen	14200-166	
DELFLIA Assay Buffer	Perkin Elmer	4002-0010	
DELFLIA Enhancement Buffer	Perkin Elmer	4001-0010	
Europium Labelled Streptavidin	Perkin Elmer	1244-360	
L243 anti-HLA-DR antibody	Biolegend	307602	
Biotinylated tracer peptides	21st Century Biochemicals	Custom Order	
Test peptides (1-4 mg, 85% purity)	Genscript	Custom Order	
Purified HLA-DRB1 monomers (non-biotinylated)	Benaroya Research Institute*	Custom Order	
384-well white EIA/RIA plate	Thermo	460372	
Polypropylene 384-well plate	Costar	3656	
Film, AxySeal, 80 μm, ELISA Applicator	Axygen Ascscientific	PCR-SP	
MilliQ Water	N/A	N/A	
Epimotion Liquid Handler (or similar)	Eppendorf	5075	
Select TS Plate Washer (or similar)	BioTek	405	
SpectraMax Gemini Microplate Reader (or similar)	Molecular Devices	N/A	

\*Recombinant human MHC II molecules can be obtained from the Benaroya Tetramer Core Laboratory. See: <https://www.benaroyaresearch.org/our-research/core-resources/tetramer-core-laboratory>