

Certificate of Analysis

Cell count	2 million per vial
Viability	96%
CD8+	100%
CD8+Negative Tetramer+	1.3%
CD8+E711-20 Tetramer+	97.0%
Sterility	Negative for Bacteria, Yeast, Fungi and Mycoplasma

Donor Information

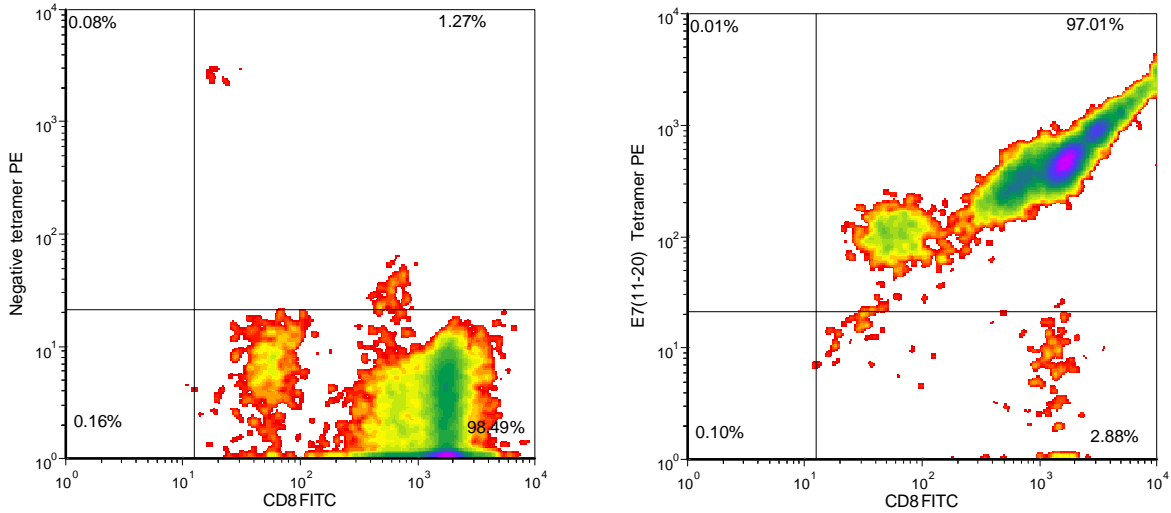
Donor ID	224
Age	52
Gender	Female
Race	Caucasian
Height	5'3"
Weight	180
ABO Type	B negative

HLA typing

	Allele 1	Allele 2
HLA-A	*0201	*0201
HLA-B	*07	*15
HLA-C	*03	*07
HLA-DRB1	*13	*15

Donors are tested for the blood borne pathogens HIV-1 and 2, Hepatitis B, Hepatitis C and HTLV-1 and are negative. Cells should still be handled as if potentially infectious following biosafety level 2 procedures

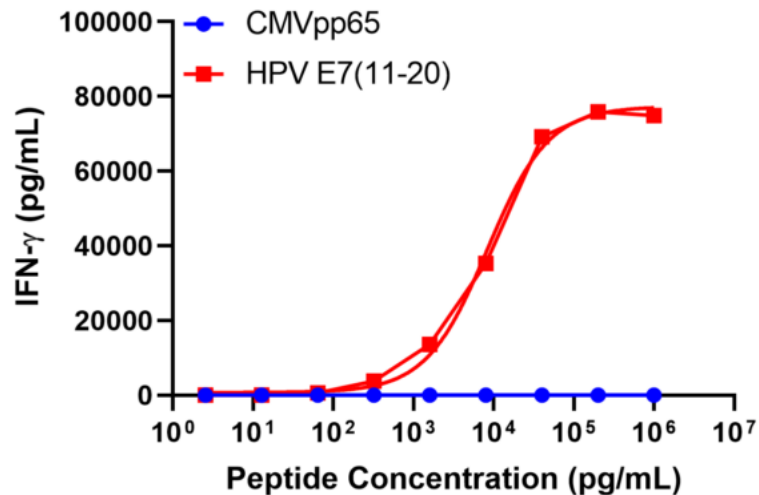
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E7(11-20) tetramer = HPV E7(11-20 peptide: YMLDLQPETT) HLA-A*0201-PE iTag MHC Tetramer (MBL International, Woburn, MA);
Negative tetramer = HLA-A*0201-PE iTag MHC Tetramer (MBL International, Woburn, MA)

IFN-gamma Secretion

HPV E7(11-20) Lot. 4808AU20



20,000 T cells were plated in a 96-well round-bottom plate alone or in the presence of 20,000 T2 cells, a B-LCL expressing HLA-A*0201) alone or in the presence of increasing concentrations HLA-A*0201 restricted CMVpp65₄₉₅₋₅₀₃ peptide (NLVPMVATV) or HLA-A*0201 restricted HPV/E7₁₁₋₂₀ peptide (YMLDLQPETT). Culture medium used in this assay is RPMI1640 + 10% FBS. After an overnight (18-24h) incubation period, supernatant was collected from each well. IFN- γ concentration was analyzed using the Meso Scale Discovery IFN- γ assay.

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