



virax  biolabs

Peptide Pools

Replace Antigen Stimulation
Discovery Grade Peptide Pools
Premium Grade Peptide Pools

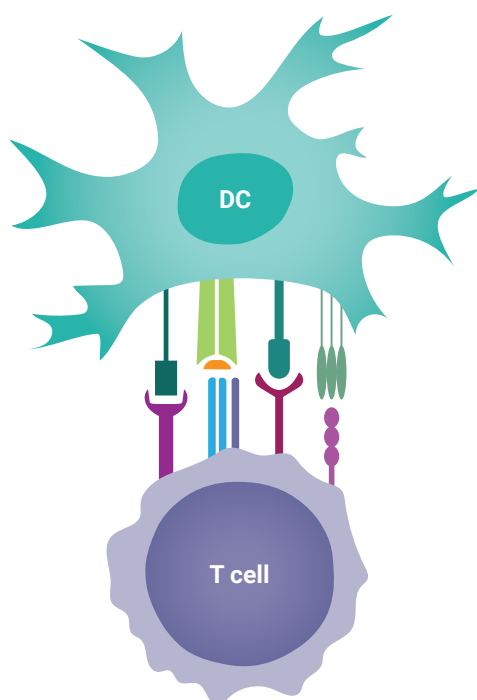
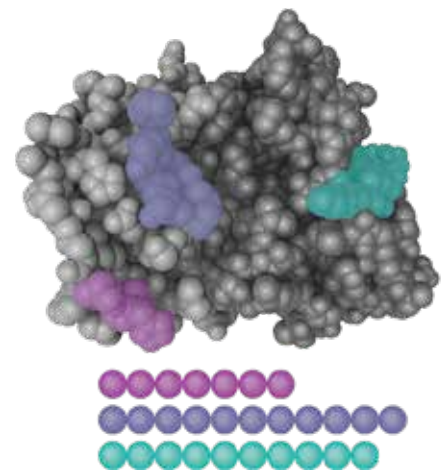
ImmuneSelect peptide pools

ImmuneSelect peptide pools can be used to replace antigen stimulation in adaptive immunity studies, providing increased stability, less variation and enhanced reproducibility compared to antigens.

How peptide pools work

Peptide Pools are created by synthesising peptides corresponding to multiple epitopes from an antigenic protein:

- ❖ The peptide selection is based on the epitope's ability to activate T cells
- ❖ Peptide pools do not cover the whole protein sequences



Advantages over using antigen

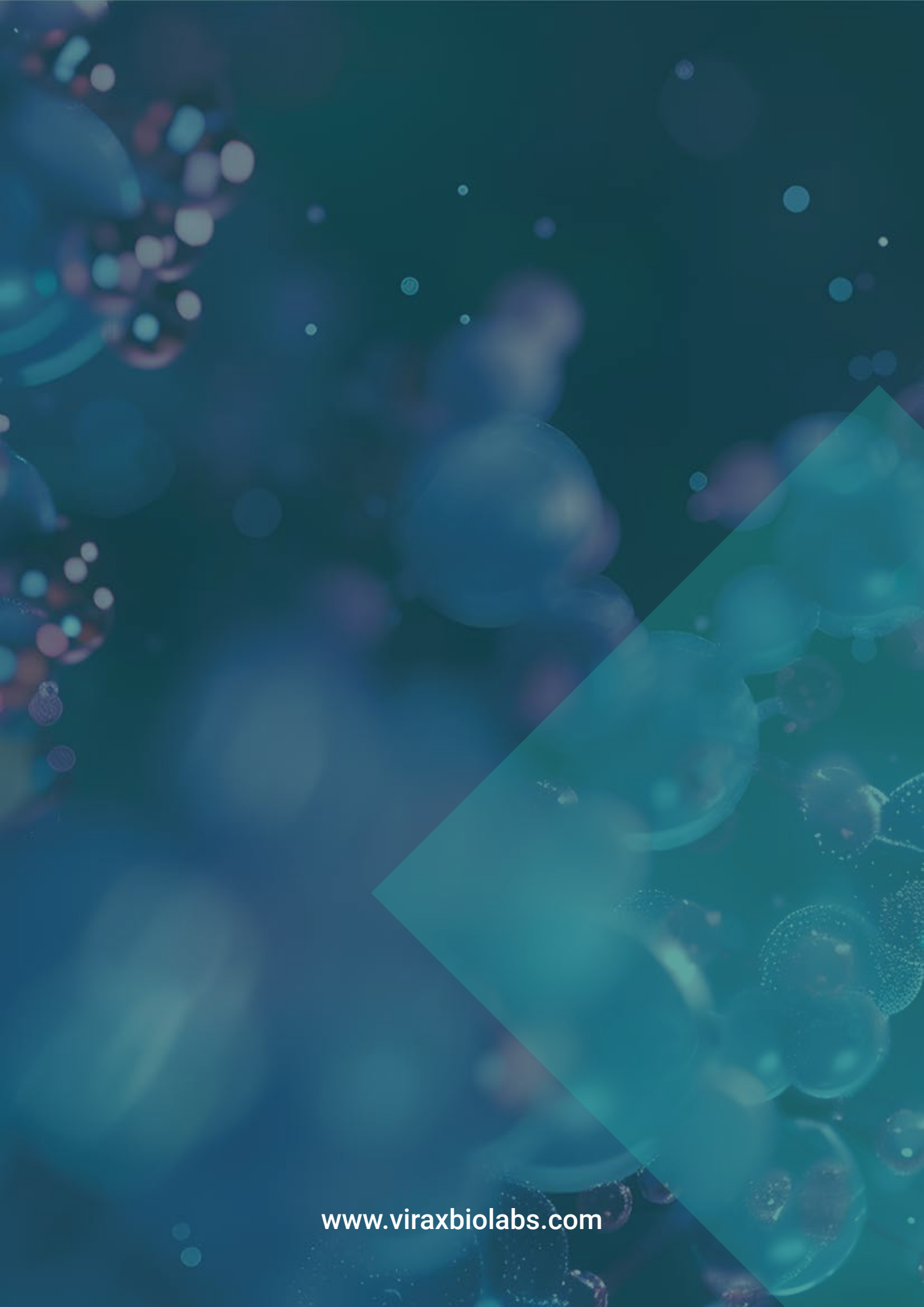
- ❖ **Enhanced reproducibility:** Antigens must be captured and digested into epitopes (peptides) by antigen-presenting cells and then presented to T cells, whereas peptides directly activate T cells, enhancing reproducibility and repeatability of experiments
- ❖ **Lower cost:** to stimulate the same amount of PBMCs, peptide pools are 10x cheaper
- ❖ **Increased stability:** no lot-to-lot variation, activity remains constant
- ❖ **Easy to use:** peptides are simply dissolved in water and can go through freeze/thaw cycles with much less loss of activity

All ImmuneSelect peptide pools are available as **Premium Grade (>90% HPLC purity)**, with a custom made peptide pools also available as **Discovery Grade (>80% HPLC purity)**. Each peptide pools contains 40-100 different epitopes.

Viruses			
Avian Flu	Hepatitis C virus (HCV)	Human metapneumovirus (hMPV)	Rubella virus
BK polyomavirus (BKV)	Hepatitis D virus (HDV)	Human papillomavirus 16 (HPV-16)	SARS-CoV-2
Chikungunya virus (CHIKV)	Hepatitis E virus (HEV)	Human papillomavirus 18 (HPV-18)	Tick-borne encephalitis virus (TBEV)
Cytomegalovirus (CMV)	Herpes simplex virus 1 (HSV-1)	Human Mastadenovirus (HAdv-C)	Varicella-zoster virus (VZV)
Dengue virus	Herpes simplex virus 2 (HSV-2)	Human polyomavirus 2 (JCV)	West Nile virus
Ebola virus	Human herpesvirus 6 (HHV-6)	Japanese Encephalitis Virus (JEV)	Yellow fever virus
Pan-Enterovirus	Human herpesvirus 8 (HHV-8 / KSHV)	LCMV	Zika virus
Epstein-Barr virus (EBV)	HIV-1	Measles virus	
Hepatitis B virus (HBV)	Human T-lymphotropic virus 1 (HTLV-1)	Respiratory syncytial virus (RSV)	

Bacteria		Controls	
Bordetella pertussis	Helicobacter pylori	CEF standard	CEFX standard
Borrelia burgdorferi	Mycobacterium tuberculosis	CEF extended	CEFX MHC-I
Chlamydia trachomatis	Pseudomonas aeruginosa	CEFT standard	CEFX MHC-II
Escherichia coli	Staphylococcus aureus	CEFT MHC-II	
Haemophilus influenzae			

Custom peptide pools, selected epitopes and complete proteins sequences are also available. Please contact us to discuss your specific requirements: support@viraxbiolabs.com



www.viraxbiolabs.com