

**PepTrack™** –

## Enabling Peptide Library Technologies for

- > T-cell Assays
- > Peptide Vaccine Development
- > CD4<sup>+</sup> and CD8<sup>+</sup> Epitope Mapping
- > Vaccine Efficacy Testing





The most efficient peptide library technology on the market. Designed to address the specific needs of T-cell assays in all development phases of novel vaccines and peptide biomarker discovery.

**jpt**

Innovative Peptide Solutions

JPT's PepTrack™ peptide libraries combine proprietary synthesis methodology capable of producing tens of thousands of peptides in numerous configurations at extremely flexible specifications with in-depth knowledge of the exacting and evolving requirements of T-cell assays in discovery research and clinical trials.

## **PepTrack™ Options**

-  **Fast Track –**  
 proteome spanning peptide libraries  
 for T-cell epitope discovery
-  **Research Track –**  
 economic and reliable tool for epitope mapping
-  **Discovery Track –**  
 guaranteed purity for immune monitoring
-  **Trial Track –**  
 highest quality for efficacy trials

Option	Purity	QA/QC	Scale	Length	Delivery	Unit Pricing
<b>Trial</b>	>80%* guaranteed	LC-MS	> 1mg	7-15 aa	3 weeks	from 69 \$/€
<b>Discovery</b>	>70% guaranteed	LC-MS	1-5mg	7-15 aa	3 weeks	from 45 \$/€
<b>Research</b>	main product = target	100% LC-MS	1-5mg	7-15 aa	2 weeks	from 25 \$/€
<b>Fast</b>	unpurified	5% LC-MS**	50-250nmol	7-15 aa	2 weeks	from 7 \$/€

\* higher purities such as > 90%, > 95% and > 97% are available

\*\* complete QC optional

  
 **Applications**

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- T-cell assays (ELISPOT, ICS, CFC...)
- T-cell epitope discovery
- Peptide vaccine development
- T-cell epitope mapping and validation
- Immune monitoring
- Optimization and validation of T-cell assays
- Vaccine efficacy testing
- Adoptive immunotherapy

 **Benefits of PepTrack™**

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- Unprecedented economy from 7 \$/€ per peptide
- Optimized protocols to inhibit false positives in T-cell assays
- Documented procedures designed to avoid toxic contaminants
- No peptide contaminants from foreign antigens
- No cross contamination
- Variable specifications and formats
- Validated protocols for pooling and aliquoting
- Freeze dried aliquots for enhanced stability

 **Quality Assurance**

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JPT is committed to highest quality standards. All processes run under an ISO 9001:2008 certified quality management system and the company was successfully GCLP audited. We encourage our clients to visit and inspect our state of the art facilities.

## References

*"Structural Basis for the Immunogenic Properties of the Meningococcal Vaccine Candidate LP2086"*

**Mascioni et al.**, The Journal of Biological Chemistry (2009)

*"T-Cell Epitope Mapping in Mycobacterium Tuberculosis Using Pepmixes Created by Micro-Scale SPOT Synthesis"*

**Lewinsohn et al.**, Methods in Molecular Biology, Epitope Mapping Protocols: Second Edition, Humana Press (2008)

*"Peptide Impurities in Commercial Synthetic Peptides and their Implications for Vaccine Trial Assessment"*

**Currier et al.**, Clinical and Vaccine Immunology (2008)

*"Magnitude, Breadth, And Functional Profile of T-Cell Responses During Human Immunodeficiency Virus Primary Infection with B and BF Viral Variants"*

**Turk et al.**, Journal of Virology (2008)

*"Activation-Induced Expression of CD137 Permits Detection, Isolation, and Expansion of the Full Repertoire of CD8+ T-Cells Responding to Antigen Without Requiring Knowledge of Epitope Specificities".*

**Wolff et al.**, Blood (2007)

*"The Impact of Impurities in Synthetic Peptides on the Outcome of T-Cell Stimulation Assays"*

**Burgers et al.**, Rapid. Commun. Mass. Spectrom. (2007)

*"Monoculture-Derived T Lymphocytes Specific for Multiple Viruses Expand and Produce Clinically Relevant Effects in Immunocompromised Patients"*

**Leen et al.**, Nature Medicine (2006)

## Testimonials

*"I have been collaborating with JPT for several years. Their unique peptide library technologies and knowledge of specific peptide requirements for T-cell assays made them a valuable, long-term partner in our efforts to develop novel adoptive immunotherapy approaches to prevent and treat viral infections post-transplant as well as for the treatment of virus and non virus-associated malignancies. Furthermore, their reagents allow us to precisely monitor and track specific T-cell populations post-infusion."*

Ann M. Leen, PhD, Baylor College of Medicine, Center for Cell and Gene Therapy, Houston, TX

*"We utilize JPT's peptide libraries and pools for T-cell epitope mapping and immune monitoring applications such as ELISPOT and ISC, as well as CFC. The combination of synthesis economy, quick turn-around time and tailored specifications are key to our success. JPT's scientific competence is invaluable for all institutions planning to employ peptides in immuno assays for research or clinical setups."*

Johannes Hampl, PhD, Anza Therapeutics, Inc. Concord, CA, USA





**Discuss your project with us**

**Please fax back to +49-30-6392-5501**

**My field of application is**

- Monitoring vaccination trials
- Epitope discovery (B-cell)
- Epitope discovery (T-cell)
- Immunomonitoring
  - ( ) infectious diseases      ( ) allergies
  - ( ) autoimmune diseases      ( ) organ transplantation
- Biomarker discovery
- Adoptive immunotherapy
- T-cell assays

other: \_\_\_\_\_

**I wish to receive more information about JPT's**

- Peptides
- Peptide arrays
- Customized PepMixes™, please specify antigen: \_\_\_\_\_
- Ready-to-use PepMixes™
- Peptide libraries
- Peptide scans
- B-cell epitope mapping service
- Proteomics
- Enzyme profiling

other/please specify: \_\_\_\_\_

- I want to receive JPT's newsletter**

**May we contact you by phone or mail?**

\_\_\_\_\_  
Name

\_\_\_\_\_  
Inst./Company

\_\_\_\_\_  
Town/Country

\_\_\_\_\_  
Phone Number

\_\_\_\_\_  
Official Email Address



## Find your JPT product at one glance

### Immuno Tools

PepStar™ Microarrays  
PepSpots™ Array Service  
PepMix™  
PepTrack™ Peptide Libraries  
RepliTope™

### Peptides & Arrays

PepStar™ Microarrays  
PepSpots™ Array Service  
PepTrack™ Peptide Libraries  
Custom Peptides  
Macroscale Peptide Sets  
Microscale Peptide Sets  
BioTides™  
Peptide Conjugates

### Proteomics & Enzyme Profiling Tools

SpikeTides™  
Kinase Profiling Tools  
Phosphatase Profiling Tools  
Protease Profiling Tools  
Microscale Peptide Sets  
PepStar™ Microarrays



Innovative Peptide Solutions

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