PepTrack™ – Enabling Peptide Library Technologies for

> T-cell Assays
> Peptide Vaccine Development
> CD4+ and CD8+ 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’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

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

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

** complete QC optional
**Applications**

- 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™**

- 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**

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.
“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”

“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”

“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”
Wolfi et al., Blood (2007)

“The Impact of Impurities in Synthetic Peptides on the Outcome of T-Cell Stimulation Assays”

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

References

“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 turnaround 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

Testimonials
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
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

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Subject to changes. 04/2010