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>
</tr>
<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”
Wolff 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”
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

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**Immunology Tools**
- PepStar™ Microarrays
- PepSpots™ Array Service
- PepMix™
- PepTrack™ Peptide Libraries
- RepliTope™

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

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**Proteomics & Enzyme Profiling Tools**
- SpikeTides™
- Kinase Profiling Tools
- Phosphatase Profiling Tools
- Protease Profiling Tools
- Macroscale Peptide Sets
- PepStar™ Microarrays

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