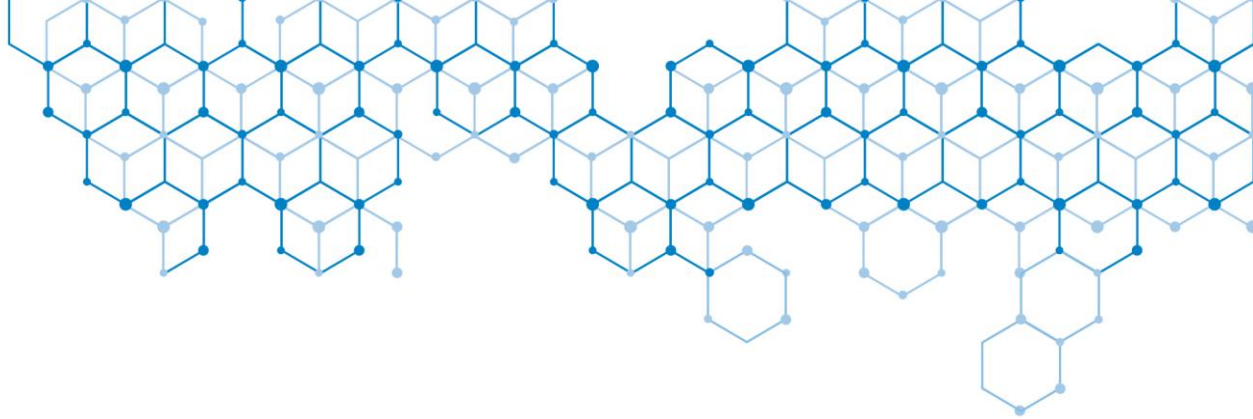


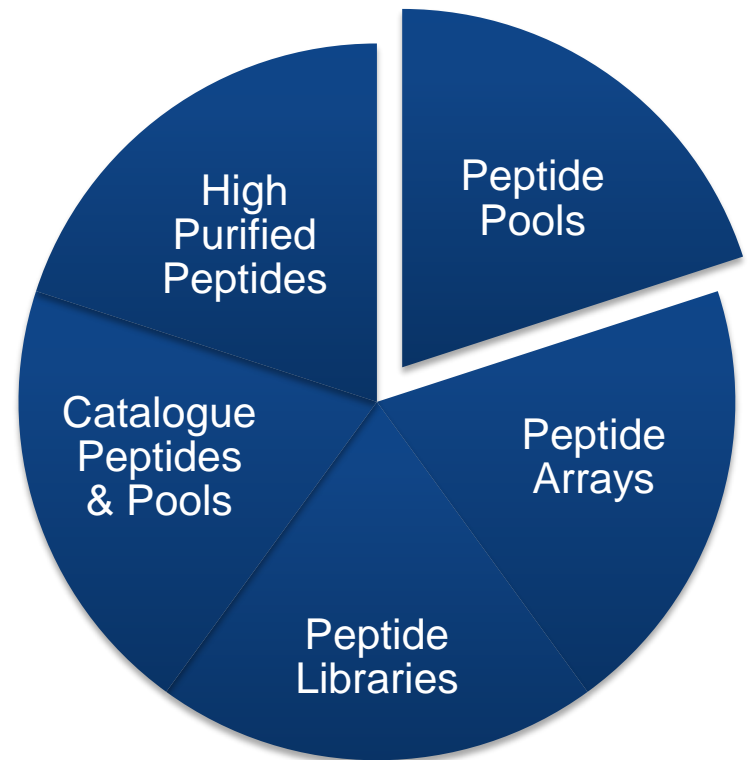
# Peptide Pools

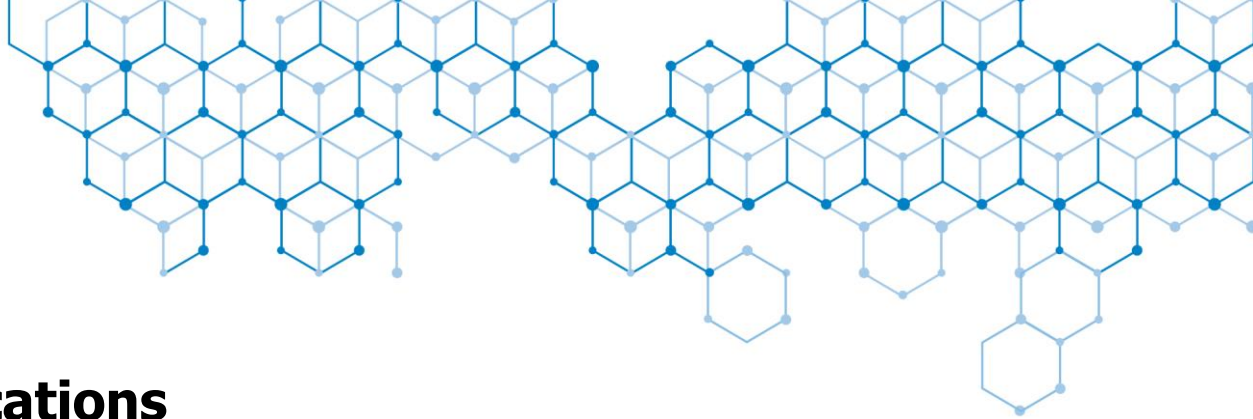


## About us...

***peptides&elephants GmbH*** was founded in 2001. Since 2017 the company is placed in Hennigsdorf (Germany).

The company's line of business includes providing **chemical** and **biological research** and **development**.

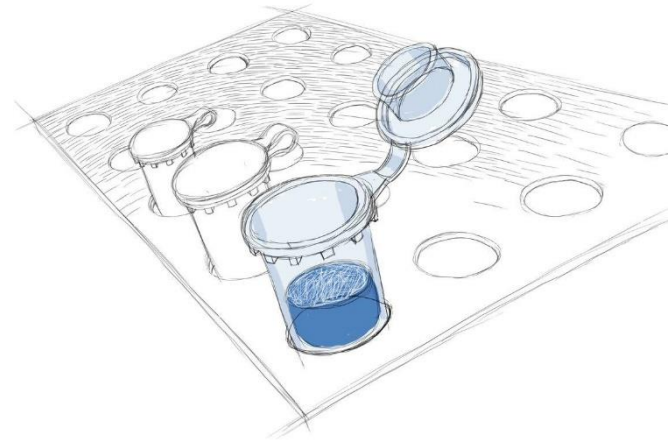


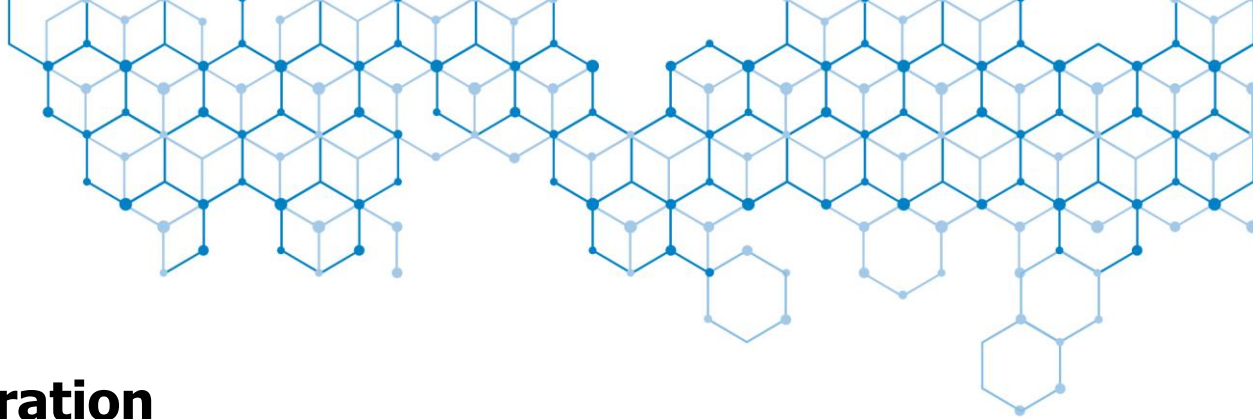


## Peptide Pools Applications

### Our PEP-LIPS peptide pools are used for:

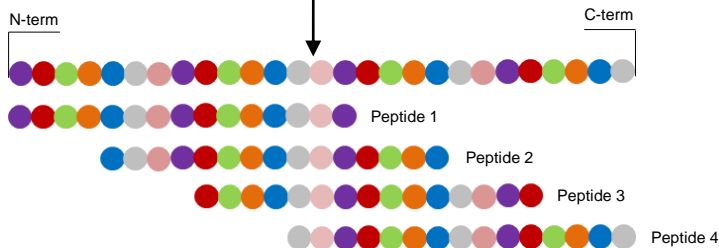
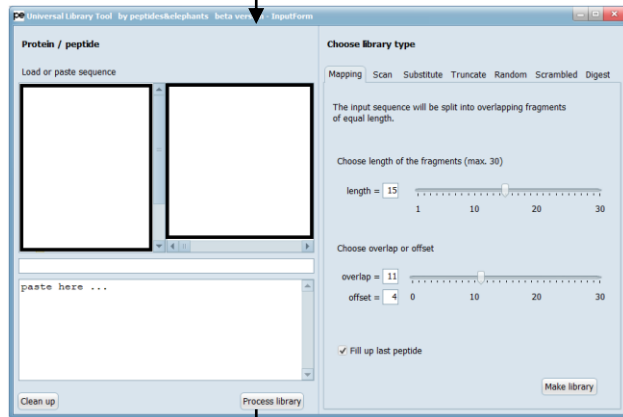
- In-vitro T-cell expansion
- Immune monitoring
- Cellular immune response profiling
- T-cell epitope identification
- Dendritic cell pulsing
- T-cell stimulation in T cell assays (cytokine staining, ELISpot, cell-mediated cytotoxicity, proliferation assays)





# Peptide Pools Preparation

## 1. Strategy and Design



### ***Scan Protein Sequence:***

Overlap: 11 amino acids

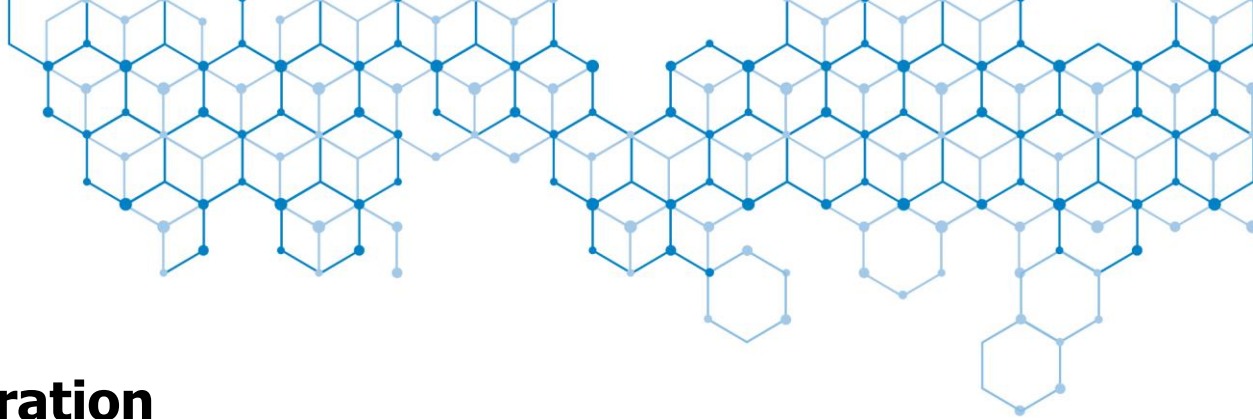
Offset: 4 amino acids

Peptides Length: 15 amino acids

***...covering the sequence of the total protein!***

### ***Pool Preparation:***

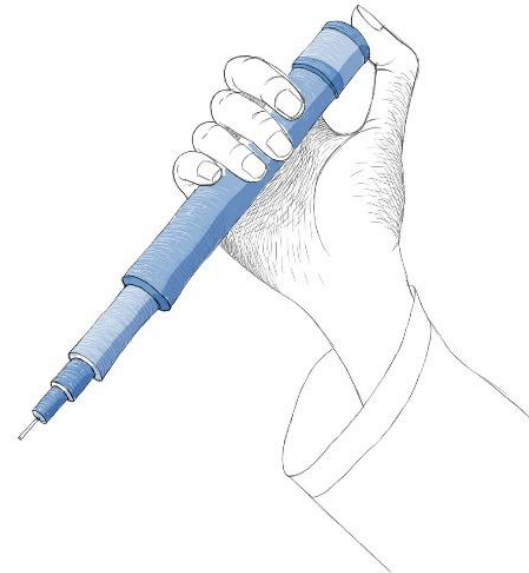
approx. 25µg / peptide

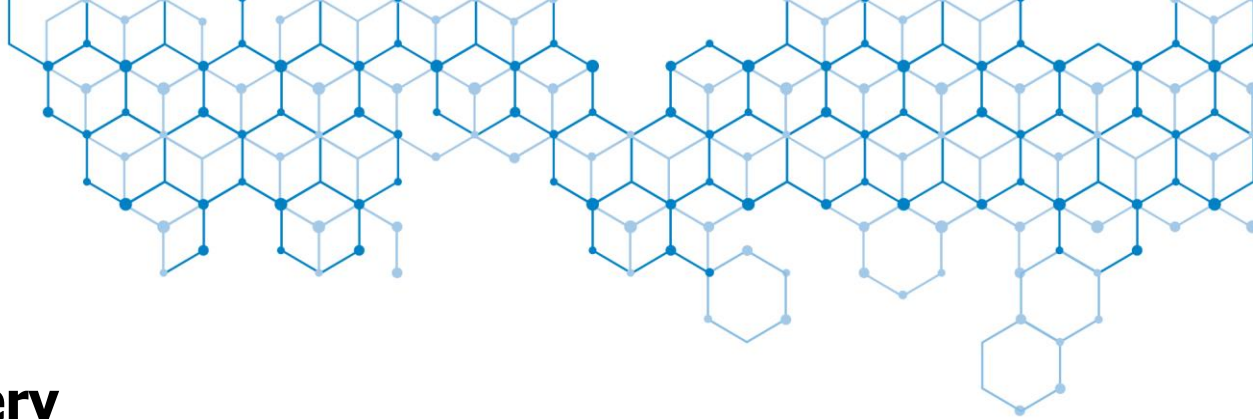


## Peptide Pools Preparation

**Our *patented* LIPS-technology uses ultrasound to speed up the synthesis and enhance the product quality.**

- 96 Well Multiprep synthesis plates
- World wide patented Pipette Technology - no cross contamination





## Peptide Pools Delivery

### Our peptide pools products



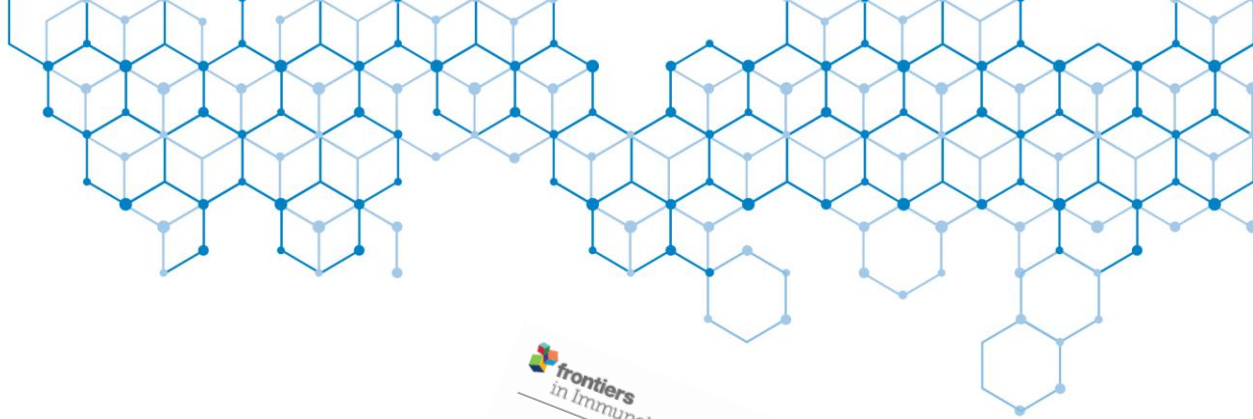
#### ***Products:***

Peptide pools provided in 2ml vials free of TSE/BSE (brown glass or plastic, based on customer's request)

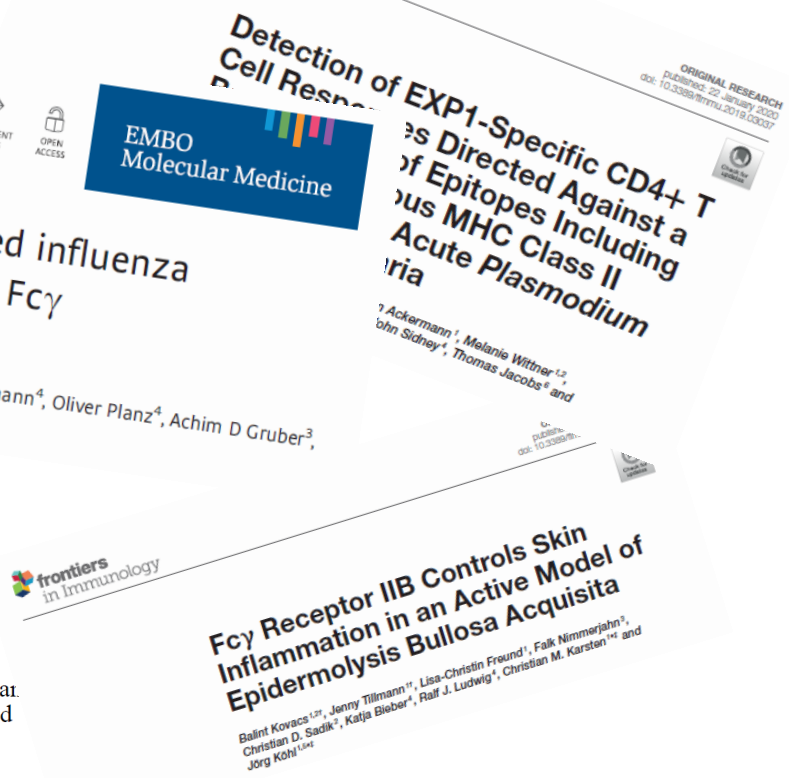
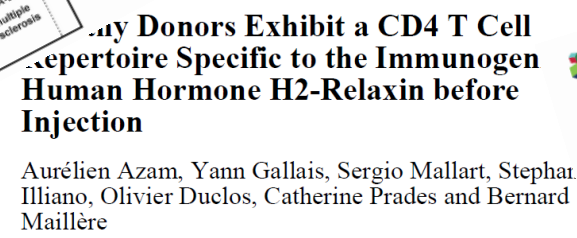
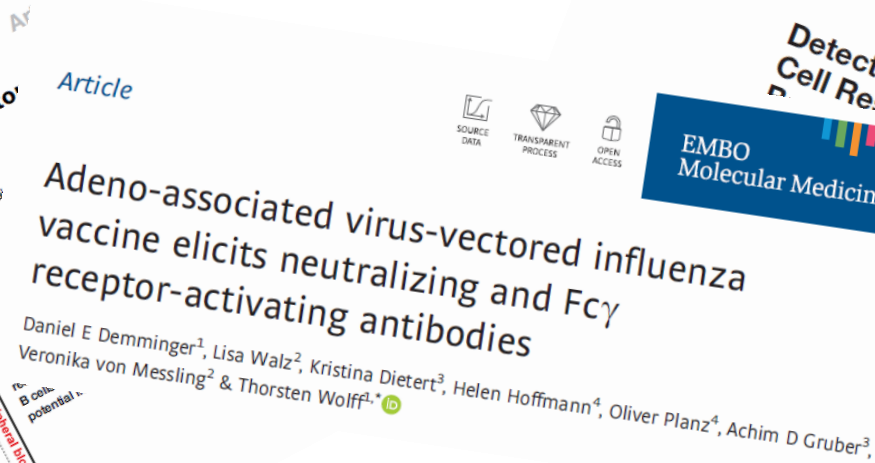
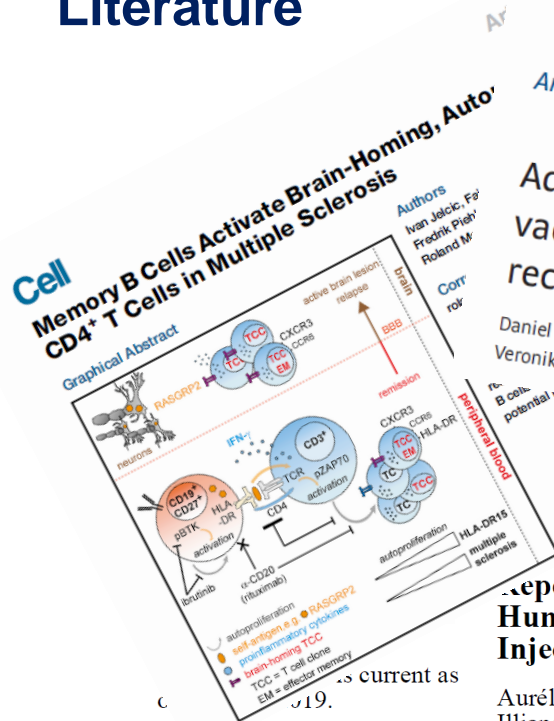
#### ***Product Data Sheet:***

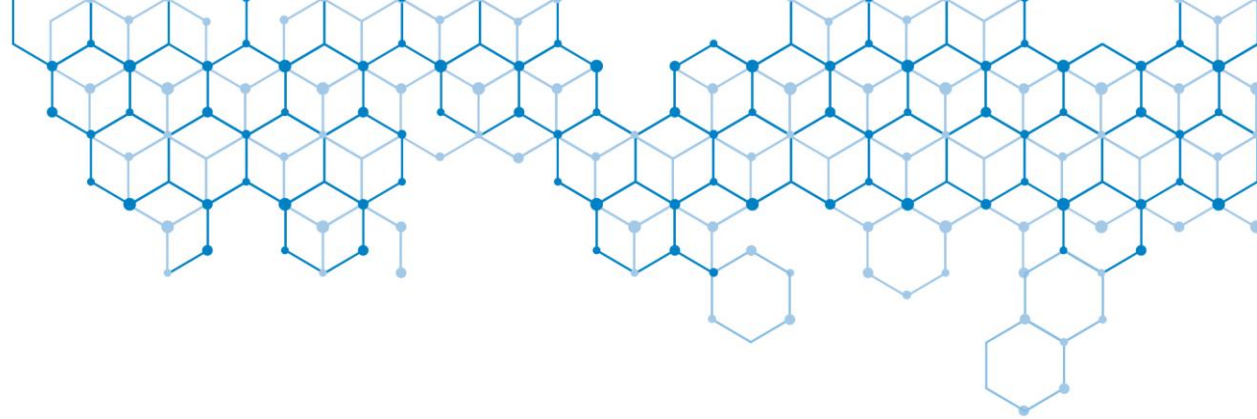
Protein ID, number of peptides, sequence, amount, product number

***Sterile and endotoxin free!***



# Peptide Pools Use Literature

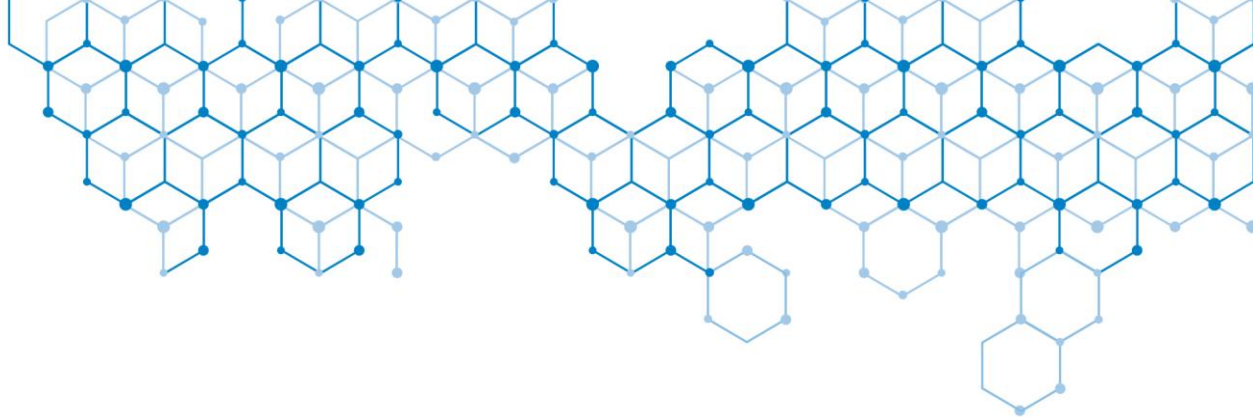




## SARS-CoV-2 PEP-LIPS for T-cell assays

Name	Product N°	Peptides	Protein	UniProt ID	Amount per aliquot
SARS-CoV-2 (NACP) PEP-LIPS-Pool	LB01786	102	Nucleoprotein	P0DTC9	2,6mg
SARS-CoV-2 (Spike Glycoprotein) PEP-LIPS-Pool	LB01792	315	Spike glycoprotein	P0DTC2	7,9mg
SARS-CoV-2 (VME1) PEP-LIPS-Pool	LB01794	53	Membrane protein	P0DTC5	1,3mg
SARS-CoV-2 (AP3A) PEP-LIPS-Pool	LB01785	66	Protein 3a	P0DTC3	1,7mg
SARS-CoV-2 (NS6) PEP-LIPS-Pool	LB01787	13	Non-Structural protein 6	P0DTC6	0,3mg
SARS-CoV-2 (NS7a) PEP-LIPS-Pool	LB01797	28	Non-structural protein 7A	P0DTC7	0,7mg
SARS-CoV-2 (NS7B) PEP-LIPS-Pool	LB01788	8	Non-structural protein 7B	P0DTD8	0,2mg
SARS-CoV-2 (NS8) PEP-LIPS-Pool	LB01789	28	Non-structural protein 8	P0DTC8	0,7mg
SARS-CoV-2 (ORF10) PEP-LIPS-Pool	LB01790	7	ORF10 Protein	A0A663DJA2	0,2mg
SARS-CoV-2 (ORF9B) PEP-LIPS-Pool	LB01791	22	Protein 9b	P0DTD2	0,6mg
SARS-CoV-2 (VEMP) PEP-LIPS-Pool	LB01793	16	Envelope small membrane protein	P0DTC4	0,4mg
SARS-CoV-2 (Y14) PEP-LIPS-Pool	LB01795	16	Uncharacterized protein 14	P0DTD3	0,4mg



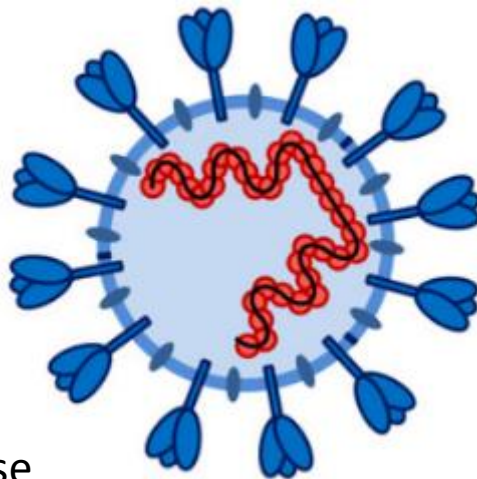


## Our SARS-CoV-2 PEP-LIPS are used for:

T-cell assays

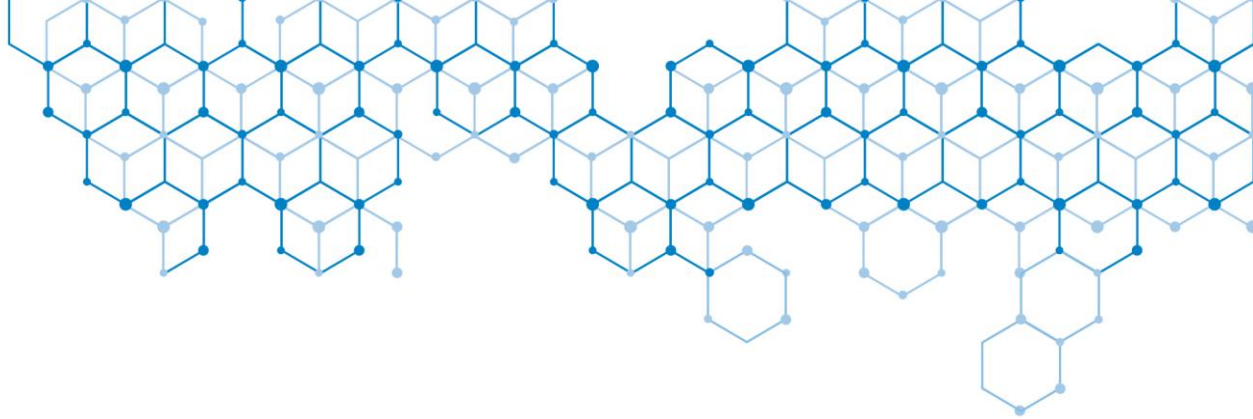
T-cell expansion

Cellular immune response



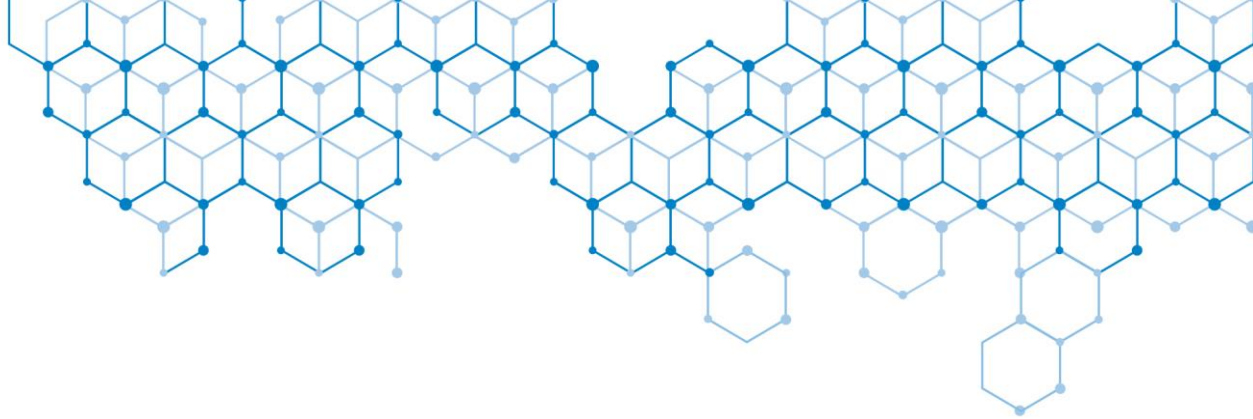
Immune monitoring

Antigen specific T-cell stimulation



## Other Peptide Pools

Name	Product N°	Peptides	Protein	UniProt ID	Amount per aliquot
pp65 (CMV) PEP-LIPS Peptide Pool	LB01232	138	65 kDa phosphoprotein	P06725	3,5 mg
EBNA-1 (EBV) PEP-LIPS Peptide Pool	LB01674	158	Epstein-Barr nuclear antigen 1	P03211	3,9 mg
BZLF1 (EBV) PEP-LIPS Peptide Pool	LB01667	59	Trans-activator protein BZLF1	P03206	1,5 mg
LMP2 (EBV) PEP-LIPS Peptide Pool	LB01690	122	Latent membrane protein 2	P13285	3,1 mg
Influenza PEP-LIPS Peptide	LB01715	17	varied	n/a	0,4 mg
HBV PEP-LIPS Peptide Pool	LB01716	9	varied	n/a	0,2 mg
RSV PEP-LIPS Peptide Pool	LB01720	28	varied	n/a	0,7 mg
CEF (advanced) PEP-LIPS Peptide Pool	LB01359	32	varied	n/a	0,8 mg



## Conclusions

- PEP-LIPS peptides pools are prepared based on our own *patented* synthesis technology, no cross-contaminations
- Sterile and endotoxin free
- Each peptide quality checked
- High batch-to-batch consistency
- Best customer service



PEPTIDES&ELEPHANTS QUALITY STATEMENT

## ENSURING THE QUALITY OF SYNTHETIC PEPTIDES

**A**s a leading provider of high quality peptide products and services, peptides&elephants (p&e) is dedicated to maintain and continuously improve product and service quality referring to GMP guidelines. p&e follows stringent quality guidelines to ensure our peptide adhere to the highest of quality expectations. At p&e we therefore have a stringent quality management system (QMS), which verifies that the products and services we supply meet or exceed industry standards. This assures customers that the company operates under a reliable quality management system. The QMS organizes and structures the company's processes, and drives implementation, maintenance and continuous improvement of our product and service quality. A company with an effective QMS will meet customer expectations with greater regularity and precision than an organization that does not.

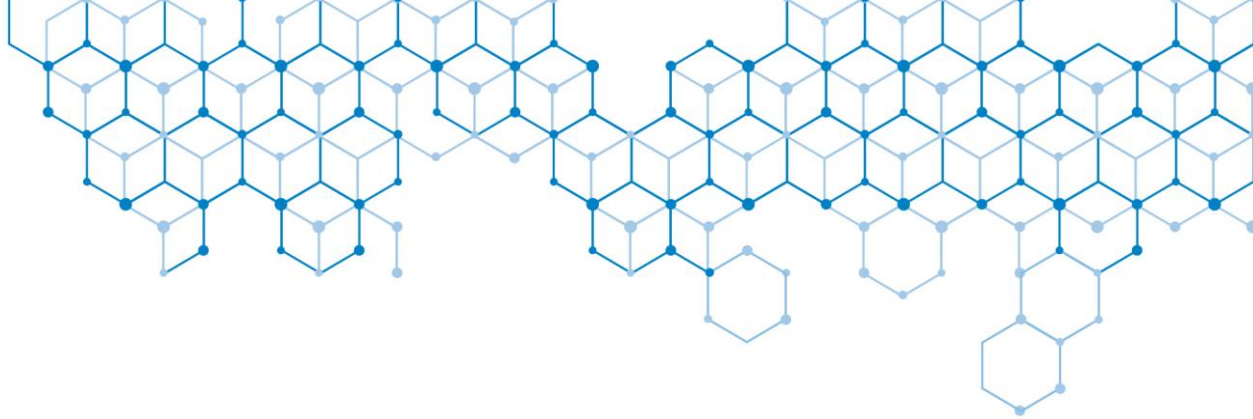
**Benefiting from this regulated environment,  
p&e serves customers worldwide with peptide services  
of the highest quality.**



Dr. Oliver Johannes Kreuzer  
Founder & CEO  
peptides&elephants GmbH



**Our high demands on ourselves are  
the quality guarantee for our  
customers and partners.**



WE ARE BIG IN PEPTIDES

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