



Core Facility Functional Peptidomics

# Cytosorb™ Extract Peptide Library

Library-ID: CY 20170705

Date: 10/01/2018

Availability: yes

Material collection:

Collector: Anästhesiology Ulm

Material: Cytosorb™ extract from Sepsis patients

Starting Amount: 10 cytosorb™ cartridges

Collecting Details:

A total of 10 cytosorb™ (CY) cartridges from 10 different Sepsis patients were collected.

The cartridge resin was extracted using 50% acetonitrile and lyophilized.

Library Generation:

The CY resin was centrifuged (4.200 rpm) and the supernatant was filtered (5-13 µm and 0.45 µm filter). The filtrate was additionally applied to an ultracentrifuge and centrifuged for 1 h at maximal force (100.000 g). The clear supernatant (0.5 L) was diluted 1/10 with water and applied to an ultrafiltration step (cut-off: 30 kDa). The ultrafiltrate was loaded on a polymer cation exchange (CEX) column. The peptides were separated according to their basicity using buffers with different ion strength and pH values. All obtained pH pool fractions were consecutively fractionated using reversed phase chromatography. From each RP-HPLC run a total of 40 fractions was obtained and aliquots of 1 ml (2.5%) were taken and lyophilized.

In total the library consists of 240 mother fractions and corresponding aliquots.

Number of Fractions: 240

Fraction content: lyophilized aliquots of 2.5 % of the mother fractions, each containing 0.1 - 1 mg of peptide/protein powder.



## Library Usage:

### Recommended Use:

CY is supposed to be a valuable source of chemokines, antibacterial and (anti-)inflammatory peptides and proteins with relevance for systemic host defense.

### Current Users:

Name	Unit	Project
Prof. Kirchhoff	Virology, Ulm	Chemokine receptor ligands
Prof. Münch	Virology, Ulm	Viral entry inhibition

