



Core Facility Functional Peptidomics

Platelet Lysate Peptide Library

Library-ID: PL 20170918

Date: 10/01/2018

Availability: yes

Material collection:

Collector: DRK Ulm

Material: Commercial sample

Starting Amount: 5 L

Collecting Details:

A total of 5 L of platelet lysate (PL) was collected in charges of 100 ml from healthy donors in the German Red Cross Center in Ulm. The PL was immediately cooled and later frozen (- 80 °C).

Library Generation:

The PL was acidified to pH 3 (acetic acid) centrifuged (4.200 rpm) and the supernatant was filtered (0.45 µm filter). To separate the protein fraction, the clear filtrate (ca. 10 L) was applied to an ultrafiltration step (cut-off: 30 kDa) resulting in a peptide containing solution of ca. 10 L. For separation the obtained ultrafiltrate was applied to a CEX column and peptides were eluted according to their basicity in pH pool fractions. These fractions were consecutively separated by a reversed phase chromatography column resulting in a total of 210 peptide containing fractions. From these mother fractions aliquots of 2.5 % were lyophilized.

In total the library consists of 210 mother fractions and corresponding aliquots.

Number of Fractions: 210

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:

PL 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