

72827 Mobile phase A for separation of amino acids on ABI™ sequencers

79923 Premix for separation of amino acids on ABI™ sequencers

Preparation

Working Solution: Before use, 1 litre mobile phase A (72827) has to be supplemented by 8-10 ml of Premix buffer concentrate (79923). Run several separations of PTH-amino acid standard and examine your chromatograms.

Pay attention to the elution position of PTH-histidine relative to PTH-alanine and elution positions of PTH-arginine relative to PTH-tyrosine. If these two pairs of amino acids are not sufficiently separated, add another 2-5 ml of Premix, purge pumps and equilibrate, before running standard again.

In case that PTH-aspartic acid is not well separated from the DTT artefact peak, add 100 µl of TFA (09653) to the working solution to get them separated.

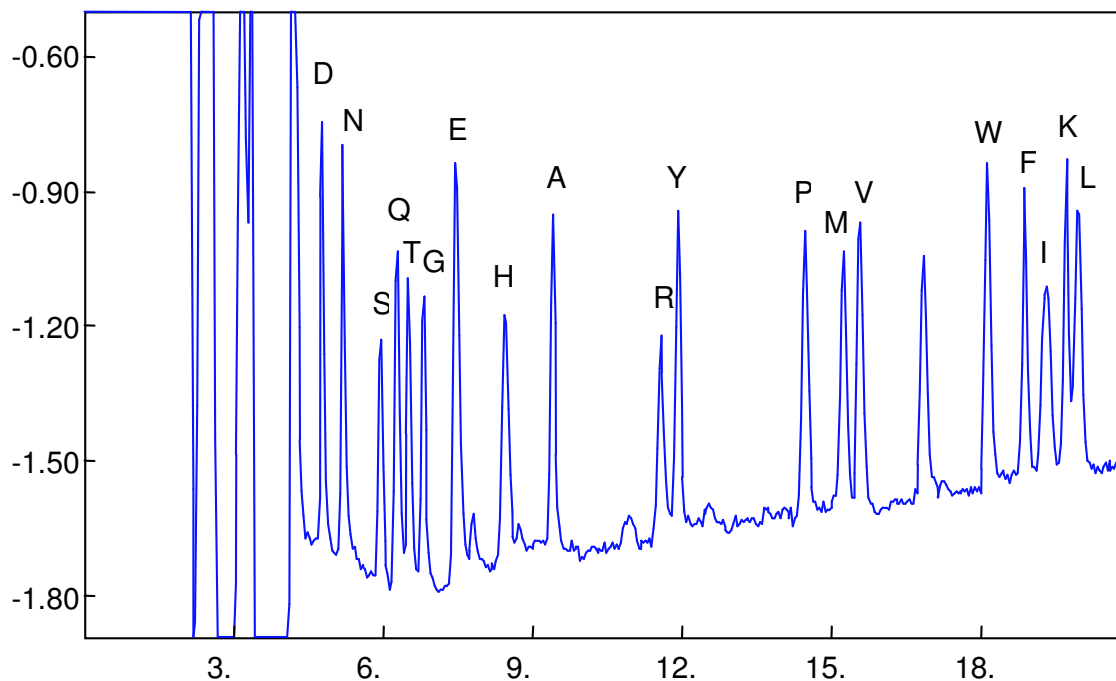
In certain cases further supplementation of the working solution with 50-100 µl Triethylamine and 10 ml NaH₂PO₄ (100 mM) can be of advantage to further increase sensitivity while working into the femtomol level.

Changes in selectivity of H/A and R/Y separation occurring during aging of the column can also be compensated by adding further portions of 0.5ml Premix to 1 litre solvent B (Fluka 85278).

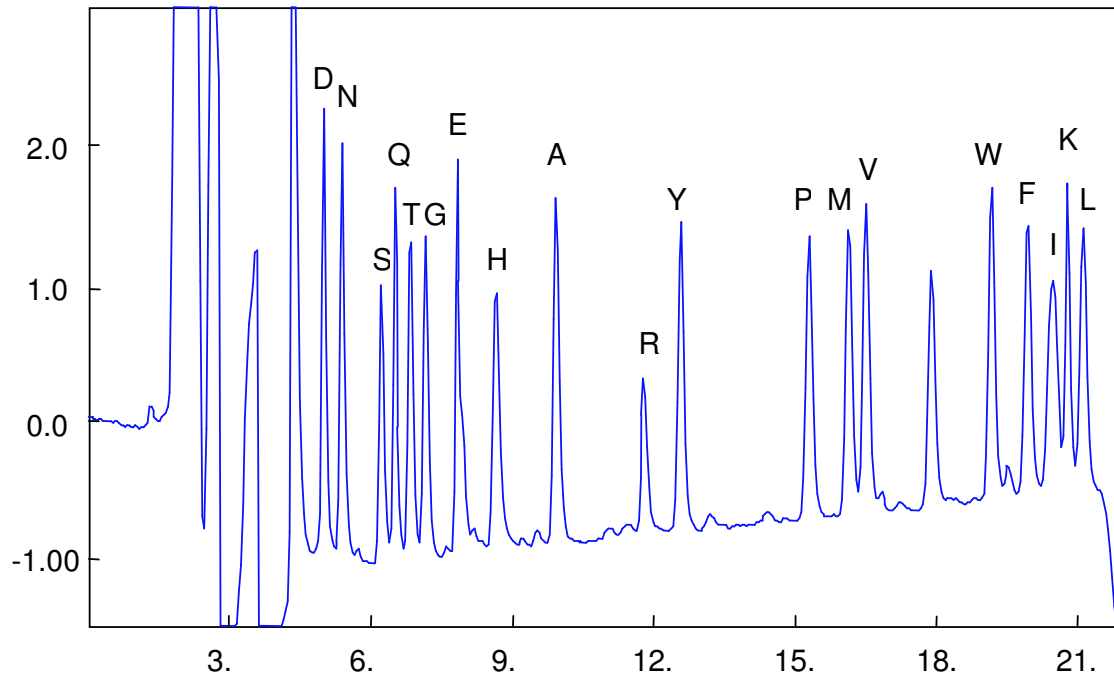
Reference chromatograms

This run of PTH-amino acid standard has been performed with

- a) just 2 pMol Standard
- b) 8 pMol Standard



chromatogram a)



chromatogram b)