## High purification of peptide from crude synthetic mixture on Bench scale FCPC® equipped with 200 ml column

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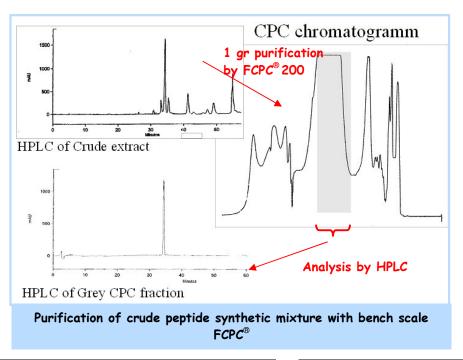
## **♣**Introduction

Bioactive synthetic peptides have a wide range of therapeutic activities as antioxidant, anti-inflammatory, anti-HIV ...

Their purification from complex synthetic mixture can be complex and expensive. CPC can be easily used with the butanol/water system for low cost production and high purity recovery.

The bench scale FCPC<sup>®</sup> equipped with 200ml rotor is used to purify one peptide from 1 gr of complex synthetic mixture. Detection is done with UV/Vis detector at 220 nm. HPLC analysis are done on C18 column.

## **4** Results



Parameters	
Flow-rate	8 ml/mn
Rotation speed	1400 rpm
Solvent system	BuOH/W + salt
Quantity injected	1 gr

Results		
Separation time	50 mn	
Solvent consumption	600 mL	
Compound purity	99%	

## **4** Conclusions

Bench scale FCPC<sup>®</sup> allows very fast separation of peptide with no degradation, no loss of product, low solvent consumption and high purity.

Moreover, this purification is easily scale up to 5L instrument for 25 gr injection and higher recovery.

