Resolution studies according to flow rate and rotation speed with piperine purification on Analytical FCPC® with 50 ml column
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Introduction

Piperine (C_{17}H_{19}NO_{3}) is the alkaloid responsible for the taste and smell of black pepper. It has been also used for the traditional medicine and like insecticide.

Trials were done on Analytical FCPC® equipped with 50ml column to follow resolution of the separation at different flow rate and rotation speed with few 100 mg injection of crude *Piper nigrum* extract. Detection is done with UV/Vis detector at 254 and 300 nm.

Results

Chromatogram shows same resolution between 4 and 8 ml/mn trials and better efficiency at 2000 rpm than 1500 rpm. In this case, separation with ARIZONA solvent system is achieve very fast at 8 ml/mn and 2000 rpm with injection up to 1 gr.

Conclusions