

## **ABSTRACT**

The analytical method for the determination of amygdalin and serotonin supplement B17 APRICARC using high-performance liquid chromatography was developed and validated.

The 96 % ethanol was used for the extraction to obtain analytes. As a suitable chromatographic column was chosen the column Ascentis Express® OH5 (3 x 100 mm, 2,7 µm). The composition of the mobile phase for the analysis was 10 mM acetate buffer pH 3.8 : acetonitrile 10:90 (v:v). The flow rate was set on 0.8 mL / min, for the detection of amygdalin was used an UV detector (wavelength 215 nm) and for the detection of serotonin was used the fluorescence detector (Ex 280 nm , Em 340 nm ).

A suitability test of chromatographic system was performed and these parameters were pursued: column efficiency, resolution peak symmetry factor and repeatability of analysis. Within the actual validation these parameters were pursued: accuracy, linearity, precision, and limit of detection and quantification.