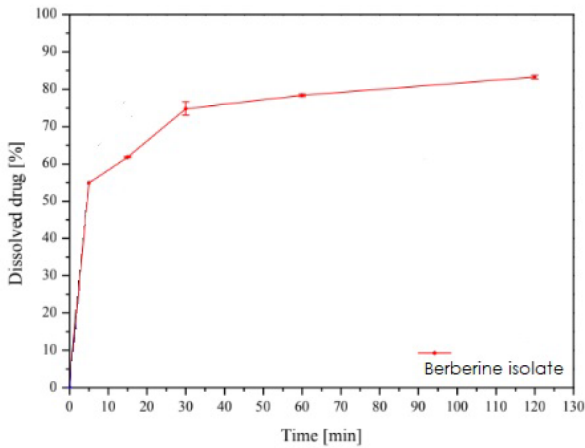
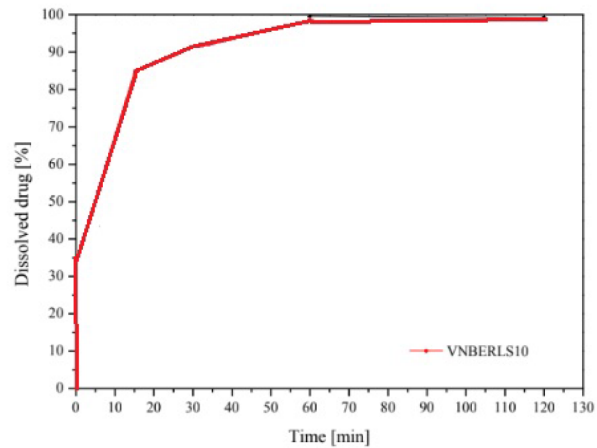


BERBERINE VS SNEDDS™ BerberiSol™ LS (VNBERLS10) BASED ON PAMPA RESULTS

ANALYSIS CONDUCTED POZNAN UNIVERSITY OF MEDICAL SCIENCES Department of Pharmacognosy



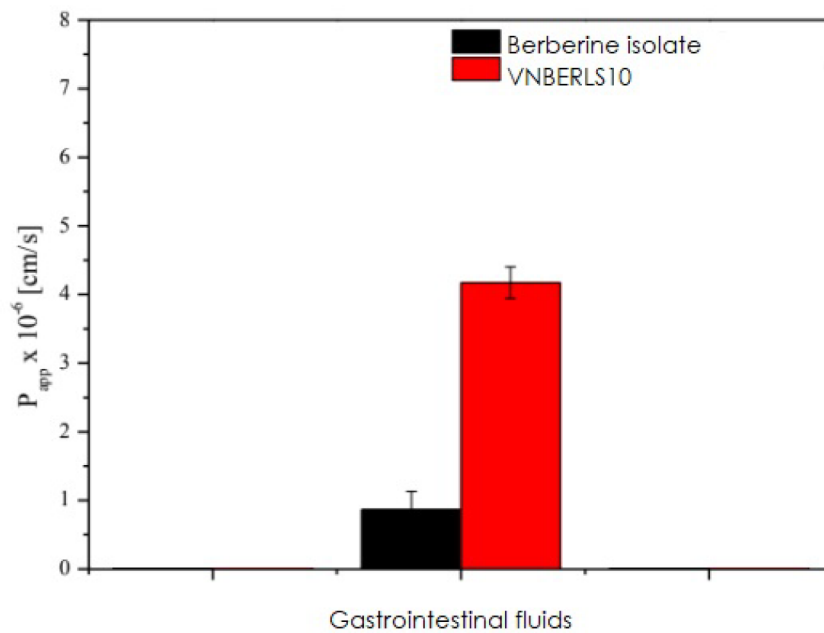
(a)



(b)

80% of Berberine isolate dissolves in about 1 1/2 hours.

98% of SNEDDS™ Berberine in VNBERLS10 dissolves in 60 minutes.



SNEDDS™ VNBERLS10 showed 5 times better permeability than Berberine isolate.

PAMPA test results indicate the degree of passive diffusion of the VN SNEDDS™ from the GI tract directly into the circulation. In addition to passive diffusion, lipid based VN SNEDDS™ are transported via intestinal lymphatics and bypasses degradation via first pass in the liver.