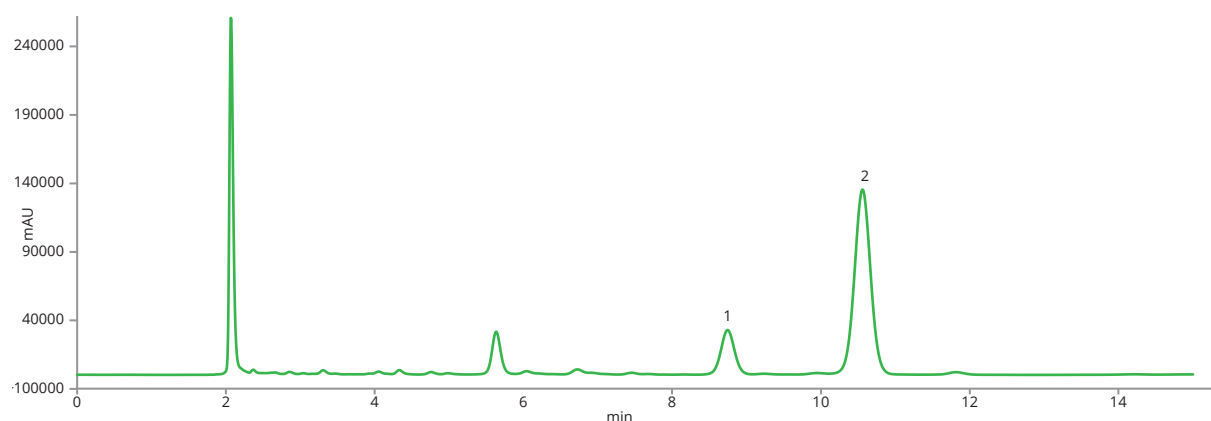


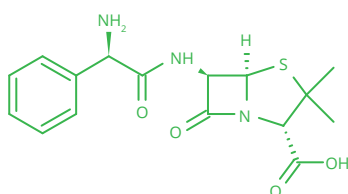
Ampicillin in human blood plasma

The accurate, simple, and selective HPLC/UV method has been established and validated for the determination of the antibiotic AMP as a suitable method in a cardiac surgery which does not have to be used only in cardiac surgery. The new ARION® Polar C18 column has been shown to effectively separate AMP in human blood plasma.

Substance	Ampicillin (AMP), CAS number 69-53-4
Synonym	Amperil, Domicillin, Polycillin_N



Human blood plasma sample on ARION® column



Ampicillin



Ampicillin in human blood plasma

Column	Arion® Polar C18, 5.0 µm
Dimensions	250 mm × 4.6 mm
Part number	ARI-5721-LM46
Mobile phase	15mM KH ₂ PO ₄ solution of pH 3.3 and MeOH, 75/25 (v/v) Isocratic elution
Flow rate	1.4 ml/min
Temperature	30 °C
Detection	UV @210 nm
Injection volume	25 µl
Analytes	1. Cephalexin (IS) 2. Ampicillin

Author of this application: Department of Pharmacology, Faculty of Medicine and Dentistry, Palacky University Olomouc

Reference: Kubickova, V.; Racova, Z.; Strojil, J.; Santavy, P.; Urbanek, K. Separation of ampicillin on polar-endcapped phase: Development of the HPLC method to achieve its correct dosage in cardiac surgery. Acta Chromatographica 2022.