



VORICONAZOLE AND POSACONAZOLE IN BLOOD PLASMA

INTRODUCTION

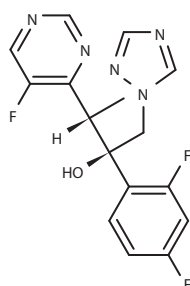
Voriconazole and Posaconazole are antifungal drugs that are monitored in plasma and urine. Spiked samples based on a blood plasma from blood donors at transfusion station were used in this application note.

Substance:

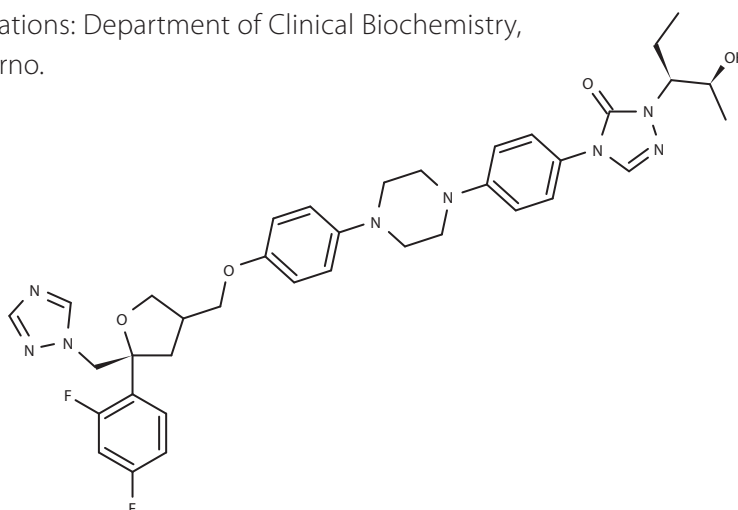
1. Voriconazole, CAS Number 137234-62-9
2. Posaconazole, Noxafil, Posanol, CAS Number 171228-49-2



Author of this applications: Department of Clinical Biochemistry,
University Hospital Brno.



Voriconazole



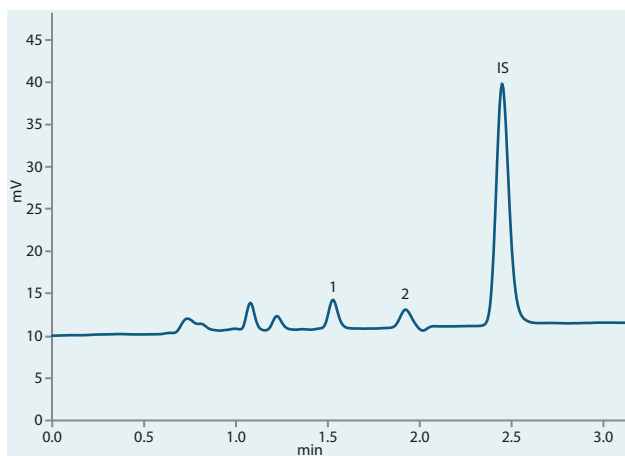
Posaconazole

Column	ARION® Plus C18, 5 µm
Dimensions	150 mm × 4.6 mm
Part number	ARI-5720-LK46
Mobile phase	0.01 M TEMED pH=7.4/ACN 30/70 (v/v) Isocratic elution
Flow rate	1.5 ml/min
Temperature	27 °C
Detection	UV @254 nm (ref. 360 nm)
Analytes	1. Voriconazole (VRC) 2. Posaconazole (PSC) IS: Clopazin

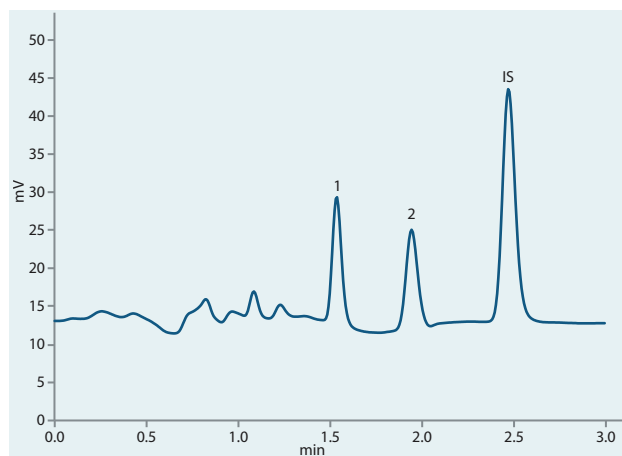
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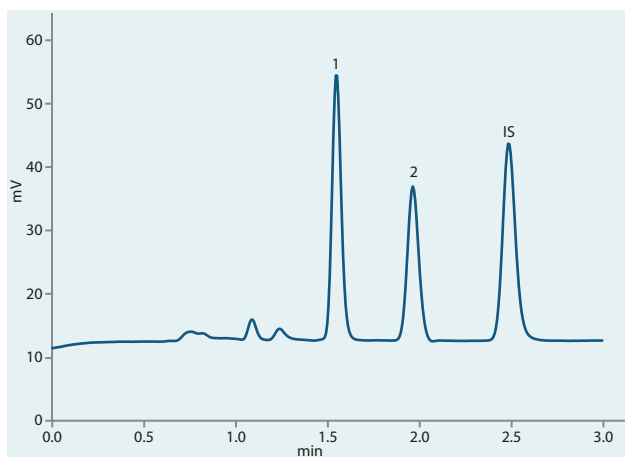
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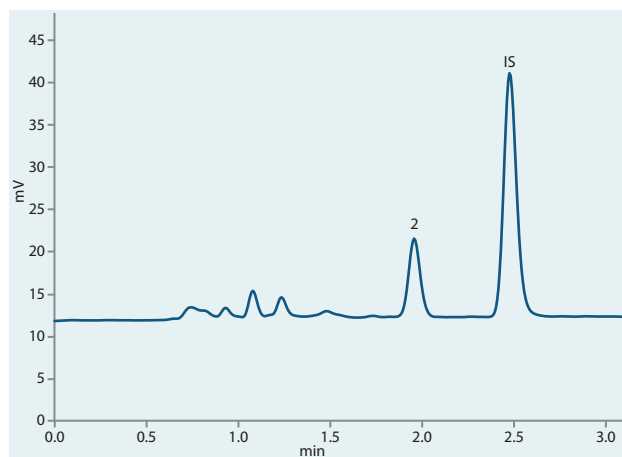
Spiked blood plasma (0.4 mg/l VRC, 0.2 mg/l PSC)



Spiked blood plasma (2.0 mg/l VRC, 1.2 mg/l PSC)



Standard (5.0 mg/l VRC, 3.0 mg/l PSC)



Sample of patient's with Posaconazole treatment