

ARK™ Voriconazole II Assay

FOR THE QUANTITATIVE MEASUREMENT OF VORICONAZOLE

METHOD: HOMOGENEOUS ENZYME IMMUNOASSAY

Voriconazole measurements are used in monitoring levels of voriconazole to help ensure appropriate therapy.

The ARK™ Voriconazole II assay is a fast, convenient homogeneous enzyme immunoassay that can be run on automated clinical chemistry analyzers. The assay is intended for the quantitative determination of voriconazole in human serum.

Features:

- Applicable to multiple chemistry platforms
- Tested drugs and endogenous substances do not interfere
- Wide linear range*
- Liquid stable, ready-to-use

Benefits:

- Flexible testing, well suited for use with fully automated procedures
- Reduces the need for sample dilution
- Reduces the need for diluting and repeat testing
- Easy to use, no additional reagent preparation required

Performance Characteristics

Precision

- Within-Run: $\leq 6.2\%$
- Total Precision: $\leq 6.9\%$

Method Comparison^(a)

- Slope: 0.99
- Intercept: 0.08 $\mu\text{g/mL}$
- Correlation Coefficient: 0.96

Linear Range

- 0.5 - 16.0 $\mu\text{g/mL}$

No Significant Interferences Up to Levels Indicated

- Albumin: 12 g/dL
- Conjugated Bilirubin: 70 mg/dL
- Unconjugated Bilirubin: 70 mg/dL
- Cholesterol: 617 mg/dL
- Gamma-Globulin: 12 g/dL
- Hemoglobin: 1000 mg/dL
- Rheumatoid Factor: 1000 IU/mL
- Triglycerides: 1000 mg/dL
- Uric Acid: 30 mg/dL
- Cross reactivity of the major metabolite, N-oxide voriconazole, was not clinically significant ($\leq 3.0\%$)

Proposed Therapeutic Range⁽¹⁾

- 1.0 - 5.5 $\mu\text{g/mL}$

(a) The performance of this method (y) was compared with results from LC-MS/MS.

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Ordering information

	Configuration	Catalog Number
ARK™ Voriconazole II Assay	R1 1 x 28 mL, R2 1 x 14 mL	5030-0001-01
ARK™ Voriconazole II Calibrator	1 x 4 mL, 5 x 2 mL	5030-0002-01
ARK™ Voriconazole II Control	3 x 4 mL	5030-0003-01

(1) Park, W.B. et al 2012. The effect of therapeutic drug monitoring on safety and efficacy of voriconazole in invasive fungal infections: a randomised controlled trial. Clin Infect Dis 55:1080-1087.

*Compared to the reference range

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