

ARK™ AB-PINACA Assay

The ARK AB-PINACA Assay is an immunoassay intended for the qualitative determination of AB-PINACA and its metabolites in human urine at a cutoff concentration of 5 ng/mL. The assay is intended for use in laboratories with automated clinical chemistry analyzers.



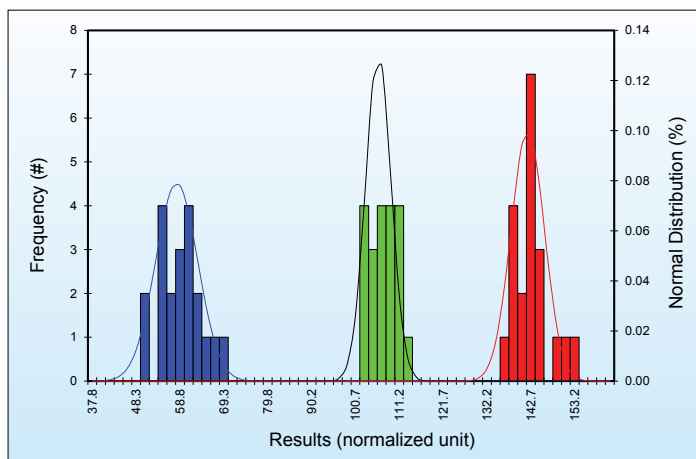
The ARK AB-PINACA Assay provides only a preliminary analytical test result. A more specific alternative chemical method must be used in order to obtain a confirmed positive analytical result. Gas Chromatography/Mass Spectrometry (GC/MS) or Liquid Chromatography/tandem Mass Spectrometry (LC-MS/MS) is the preferred confirmatory method. Clinical consideration and professional judgment should be exercised with any drug test result, particularly when the preliminary test result is positive.

KEY POINTS

- Convenient, liquid-stable, ready-to-use homogeneous enzyme immunoassay
- 5 ng/mL cutoff
- Excellent sensitivity and specificity for detection of AB-PINACA and its metabolites in human urine
- Nonhazardous preservatives

Next Generation Assays

QUALITATIVE PRECISION



Control Precision vs 5 ng/mL Cutoff Calibrator

QUALITATIVE 20 DAY PRECISION

Human Urine (ng/mL)	Relative % Cutoff	# of Results	Results
0.00	-100	160	160 Negative
1.25	-75	160	160 Negative
2.50	-50	160	160 Negative
3.75	-25	160	160 Negative
5.00	Cutoff	160	67 Negative / 93 Positive
6.25	+25	160	160 Positive
7.50	+50	160	160 Positive
8.75	+75	160	160 Positive
10.00	+100	160	160 Positive

Pooled Human Urine Samples containing AB-PINACA pentanoic acid were assayed in quadruplicate twice a day for 20 days. CLSI Guideline EP5-A3.

METHOD COMPARISON

ARK AB-PINACA Assay (5 ng/mL Cutoff)	Comparative Screening Method		
		(+)	(-)
	(+)	14	2*
(-)	0	54	

*These two (2) samples were confirmed to be positive by LC-MS/MS.

CROSS-REACTIVITY AND INTERFERENCE

Compound	Concentration (ng/mL)	Percent Cross-reactivity (%)
AB-PINACA pentanoic acid	5.0	100.00
ADB-PINACA pentanoic acid	3.5	142.86
ADB-PINACA N-(4-hydroxypentyl)	4.0	125.00
5-fluoro ADB-PINACA	4.2	119.05
ADB-PINACA N-(5-hydroxypentyl)	4.3	116.28
5-fluoro AB-PINACA	4.7	106.38

Compound	Concentration (ng/mL)	Percent Cross-reactivity (%)
AB-PINACA N-(4-hydroxypentyl)	5.0	100.00
AB-PINACA N-(5-hydroxypentyl)	5.0	100.00
ADBICA N-(5-hydroxypentyl)	5.5	90.91
5-fluoro ABICA	6.0	83.33
5-fluoro ADBICA	6.0	83.33
ADBICA N-(4-hydroxypentyl)	6.0	83.33
ADBICA N-pentanoic acid	7.0	71.43
AB-PINACA	8.0	62.50
5-fluoro AB PINACA N-(4-hydroxypentyl)	8.0	62.50
5-chloro AB-PINACA	8.0	62.50
MAB-CHMINACA (ADB-CHMINACA)	8.5	58.82
ADB-PINACA	9.0	55.56
AB-FUBINACA	9.0	55.56
ADB-FUBINACA	10.0	50.00
AB-CHMINACA	11.5	43.48
ADBICA	20.0	25.00

SAFETY AND STABILITY

Reagent on-board stability

Up to at least 60 days

Shelf Life of Reagents, Calibrators, and Controls

18 months from date of manufacturing

Safety

Nonhazardous preservatives

Contains sodium azide \leq 0.09%

Results shown are typical and may vary among laboratory analyzers.

ORDERING INFORMATION

For Export Only – Not for Sale in USA

ARK™ AB-PINACA Assay	5055-0001-00	R1 28mL, R2 14mL
	5055-0001-01	R1 115mL, R2 58mL

ARK™ AB-PINACA Calibrator	5055-0002-01	2 x 10mL; Negative
	5055-0002-02	2 x 10mL; 5 ng/mL Cutoff

ARK™ AB-PINACA Control	5055-0003-00	2 x 10mL; LOW 2.5 ng/mL 2 x 10mL; HIGH 7.5 ng/mL
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For Criminal Justice and Forensic Use Only

ARK™ AB-PINACA Assay	5055-0004-00	R1 28mL, R2 14mL
	5055-0004-01	R1 115mL, R2 58mL

ARK™ AB-PINACA Calibrator	5055-0005-01	2 x 10mL; Negative
	5055-0005-02	2 x 10mL; 5 ng/mL Cutoff

ARK™ AB-PINACA Control	5055-0006-00	2 x 10mL; LOW 2.5 ng/mL 2 x 10mL; HIGH 7.5 ng/mL
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