

For Criminal Justice and Forensic Use Only

## ARK™ Ketamine Calibrator

This ARK Diagnostics, Inc. package insert for the ARK Ketamine Calibrator must be read carefully prior to use. Package insert instructions must be followed accordingly. Reliability of the assay results cannot be guaranteed if there are any deviations from the instructions in this package insert.

### CUSTOMER SERVICE

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### KEY TO SYMBOLS USED

	Batch code	 YYYY-MM-DD	Use by/Expiration date
	Catalog Number		Manufacturer
	Consult Instructions for Use		Calibrator
	Temperature limitation		

Calibrator Kit  5056-0005-00

Negative Kit  5056-0005-01

Cutoff Kit  5056-0005-02

### 1 NAME

**ARK™ Ketamine Calibrator**

### 2 INTENDED USE

This product is intended for Criminal Justice and Forensic Use Only.

The ARK Ketamine Calibrator is intended for use in calibration of the ARK Ketamine Assay.

### 3 CONTENT

The ARK Ketamine Calibrator is composed of a non-sterile, processed human urine matrix with the following concentrations of ketamine. Negative and Cutoff calibrators may be obtained separately for qualitative analysis.

REF	Product Description	Quantity/Volume
5056-0005-00	<b>ARK Ketamine Calibrator</b> Ketamine, human urine, stabilizer and sodium azide	Dropper Vials
	A	0 ng/mL
	B	50 ng/mL
	C	100 ng/mL
	D	200 ng/mL
	E	500 ng/mL

REF	Product Description	Quantity/Volume
5056-0005-01	<b>ARK Ketamine Calibrator A (Negative)</b> Human urine, stabilizer and sodium azide	Dropper Vials
	Negative	0 ng/mL

REF	Product Description	Quantity/Volume
5056-0005-02	<b>ARK Ketamine Calibrator B (Cutoff)</b> Ketamine, human urine, stabilizer and sodium azide	Dropper Vials
	Cutoff	50 ng/mL

### 4 STANDARDIZATION

There is no internationally recognized standard for ketamine. A certified solution of ketamine is traceable to HPLC. ARK Ketamine Calibrators are prepared by volumetric dilution of high purity ketamine into non-sterile, processed human urine free of ketamine.

Calibrators are made with non-sterile, processed human urine free of ketamine. Donors were non-reactive in tests for HIV 1/2, HBsAg, HCV, HIV-1 (NAT), HCV (NAT) and RPR.

### 5 WARNINGS AND PRECAUTIONS

- Not for *In Vitro* Diagnostic Use.
- Harmful if swallowed.
- Contains human urine. Handle as potentially infectious.
- Do not mix calibrators from different lot numbers.
- Use each lot as a set.
- Product contains ≤0.09% sodium azide. As a precaution, affected plumbing including instrumentation should be flushed adequately with water to mitigate the potential accumulation of explosive metal azides.

### 6 INSTRUCTIONS FOR USE

- For a complete summary and explanation of the Ketamine Assay, refer to the package insert for the ARK Ketamine Assay.
- Calibrators are ready to use. Mix each level by gentle inversion before dispensing.
- Squeeze sufficient volume (~40µL/drop) into individual sample cups for each level. Consult instrument-specific sample volume requirements. Return caps to their original containers and keep tight.
- Store at 2-8°C. Use prior to the expiration date.

### 7 PROCEDURE

#### Qualitative Results

Use the 50 ng/mL Calibrator B as a Cutoff Calibrator to distinguish negative and positive samples. Run the ARK Ketamine Low (25 ng/mL) and High (75 ng/mL) Controls as Negative and Positive respectively. Report test results less than the response value for the Cutoff Calibrator as Negative. Report test results equal to or greater than the response value for the Cutoff Calibrator as Positive.

#### Semiquantitative Results

Perform a 5-point calibration procedure; test calibrators in duplicate. Verify the calibration curve with the ARK Ketamine Low (25 ng/mL) and High (75 ng/mL) quality controls according to the established laboratory quality assurance plan. Specimens with sample results above the highest ARK Ketamine calibrator level (500 ng/mL) may be diluted in ARK Ketamine Calibrator A (Negative urine) and retested.

**When to Re-Calibrate**

- Whenever a new lot number of reagents is used
- Whenever indicated by quality control results
- Whenever required by standard laboratory protocols
- A stored calibration curve was effective up to at least 25 days based on supporting data

**8 LIMITATIONS OF PROCEDURE**

Accurate and reproducible results are dependent upon properly functioning instruments, reagents, calibrators, controls, storage of product as directed, and good laboratory technique.

**9 TRADEMARKS**

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