

# ARK™ Methylphenidate Metabolite Calibrator

This ARK Diagnostics, Inc. package insert for the ARK Methylphenidate Metabolite 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.

Report any serious incident that has occurred in relation to the device to the manufacturer and the appropriate competent authority as applicable.

## Customer Service



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## Key to Symbols Used

	Batch code	 YYYY-MM-DD	Use by/Expiration date
	Catalog Number		Manufacturer
	Authorized Representative		CE Mark with notified body number
	Consult Instructions for Use		Calibrator
	Temperature limitation		In Vitro Diagnostic Medical Device
<b>Rx Only</b>	For Prescription Use Only		

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Calibrator Kit  5042-0002-00

Negative Kit  5042-0002-01

Cutoff Kit  5042-0002-02

**1 Name**  
**ARK™ Methylphenidate Metabolite Calibrator**

**2 Intended Use**

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

**3 Content**

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

REF	Product Description	Quantity/Volume	
5042-0002-00	<b>ARK Methylphenidate Metabolite Calibrator</b> Methylphenidate Metabolite, human urine, stabilizer and sodium azide	Dropper Vials	
	<b>A</b>	0 ng/mL	1 X 4 mL
	<b>B</b>	100 ng/mL	1 X 4 mL
	<b>C</b>	200 ng/mL	1 X 4 mL
	<b>D</b>	500 ng/mL	1 X 4 mL
	<b>E</b>	1000 ng/mL	1 X 4 mL

REF	Product Description	Quantity/Volume
5042-0002-01	<b>ARK Methylphenidate Metabolite Calibrator A (Negative)</b> Human urine, stabilizer and sodium azide	Dropper Vials
	<b>Negative</b>	0 ng/mL

REF	Product Description	Quantity/Volume
5042-0002-02	<b>ARK Methylphenidate Metabolite Calibrator B (Cutoff)</b> Methylphenidate Metabolite, human urine, stabilizer and sodium azide	Dropper Vials
	<b>Cutoff</b>	100 ng/mL

**4 Standardization**

There is no internationally recognized standard for Methylphenidate Metabolite. A certified solution of Methylphenidate Metabolite is traceable to HPLC. ARK Methylphenidate Metabolite Calibrators are prepared by

volumetric dilution of high purity Methylphenidate Metabolite into non-sterile, processed human urine free of Methylphenidate Metabolite.

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

## 5 Warnings and Precautions

- For *In Vitro* Diagnostic Use. For prescription use only.
- 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  $\leq 0.09\%$  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 Methylphenidate Metabolite Assay, refer to the package insert for the ARK Methylphenidate Metabolite Assay.
- Calibrators are ready to use. Mix each level by gentle inversion before dispensing.
- Squeeze sufficient volume ( $\sim 40\mu\text{L}/\text{drop}$ ) into individual sample cups for each level. Consult instrument-specific sample volume requirements. Return caps to their original containers and keep tight.
- Store vials at 2-8°C. Once opened, use within 12 months and prior to the expiration date.

## 7 Procedure

### Qualitative Results

Use the 100 ng/mL Calibrator B as a Cutoff Calibrator to distinguish negative and positive samples. Run the ARK Methylphenidate Metabolite Low (50 ng/mL) and High (150 ng/mL) Controls as Negative and Positive respectively. Report test results less than the response value for the Cutoff Calibrator as Negative. Report results equal to or greater than the response value for the Cutoff Calibrator as Positive.

### Semiquantitative Results

Perform a 5-point calibration procedure; run calibrators in duplicate. Verify the calibration curve with the ARK Methylphenidate Metabolite Low (50 ng/mL) and High (150 ng/mL) quality controls according to the established laboratory quality assurance plan. Specimens with sample results above the highest ARK Methylphenidate Metabolite calibrator level (1000 ng/mL)

may be diluted in ARK Methylphenidate Metabolite 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 8 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**

**ARK<sup>TM</sup>** is a trademark of ARK Diagnostics, Inc.

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