



# MATERIAL SAFETY DATA SHEET

MSDS DATE: 09 / 18 / 07

## SECTION 1 - PRODUCT IDENTIFICATION/MANUFACTURER

<b>Trade name and synonym:</b>	<b>P-gp Drug Interaction Assay kit</b>
<b>Catalog number</b>	D05001
<b>CAS number</b>	NA
<b>Manufacturer:</b>	<b>Telephone Number:</b> 33 (1) 39 30 62 60
SPI-BIO	<b>Facsimile Number:</b> 33 (1) 39 30 62 99
Parc d'Activités Pas du Lac	<b>E-Mail:</b> sales@spibio.com
10 bis, avenue Ampère	
F-78180 Montigny-le-Bretonneux, France	

## SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Name of reagents	Ingredients	CAS #	Concentration
Vinblastine	DMSO	67-68-5	1%
Verapamil	DMSO	67-68-5	2%
Progesterone	Ethyl alcohol	64-17-5	30%
Non Specific ATPase inhibitors	Sodium azide	26628-22-8	1.3%
	Ouabain Octahydrate	11018-89-6	0.2%

## SECTION 3 – HAZARDS IDENTIFICATION

Special indication of hazards to humans and the environment:  
Ouabain: Toxic by inhalation, ingestion.  
Sodium azide and solvents: Harmful by inhalation, ingestion, and skin absorption.  
Irritating to eyes, respiratory system and skin

## SECTION 4 – FIRST AID MEASURES

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.  
In case of skin contact, immediately wash skin with soap and copious amounts of water.  
In case of contact with eyes, immediately flush eyes with copious amounts of water for at least 15 minutes.  
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

## SECTION 5 – FIRE FIGHTING MEASURES

Extinguish media:  
Suitable: water spray, carbon dioxide, dry chemical powder, or appropriate foam.  
Special risks: ouabain: emits toxic fumes under fire conditions.  
Specific hazard(s): None  
Special protective equipment for fire-fighters: None

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Procedure(s) of personal precaution(s):  
Wear suitable laboratory protective equipment lab coats, gloves and safety glasses.  
Methods for cleaning up:  
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## SECTION 7 – HANDLING AND STORAGE

Storage:  
Conditions of storage: Store at -20°C, tightly closed.  
Handling:  
Directions for safe handling: do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.  
Wear suitable protective clothing including laboratory overalls, safety glasses and gloves. Do not get in eyes, on skin, or on clothing. Do not breathe the vapour. Wash thoroughly after handling.



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### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls:

Mechanical exhaust required.

General hygiene measures:

Wash thoroughly after handling.

Personal protective equipment:

Respiratory protection: use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where protection from nuisance levels of dusts are desired, use a full-face particle respirator type N100 (US) or type P3 (EN143) respiratory cartridge.

Hand protection: Compatible chemical-resistant gloves.

Eye protection: chemical safety goggles.

Body protection: protective clothing

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state: liquid for all reagents.

Colour: colourless

Smell (odour): Odourless

pH value (at 25 °C): No data.

Melting point (°C): No data.

Boiling point (°C): No data.

Flash point (°C): No data.

Inflammability: No data.

Vapour tension (°C): No data.

Solubility in water: No data.

Partition coefficient n-octanol/water: No data.

### SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.

Conditions to be avoided: heat.

Materials to avoid: acids. Contact with acids liberates very toxic gas.

Hazardous decomposition products: Unknown

### SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity:

LD50 oral rat (mg/kg): unknown.

LD50 skin rabbit (mg/kg): unknown.

Gingivostomatitis LD50 : unknown.

LD50 inhalation: unknown

The toxicological properties have been not fully evaluated.

Sodium azide is toxic if swallowed, inhaled, or absorbed through skin. May cause eye and skin irritation.

### SECTION 12 – ECOLOGICAL INFORMATION

Avoid release to the environment

Runoff from fire control or dilution water may cause pollution.

### SECTION 13 – DISPOSAL CONSIDERATION

Substance disposal:

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.



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### SECTION 14 – TRANSPORT INFORMATION

RID/ADR:

No limitation for road transport.

IMDG:

No limitation for sea transport.

IATA:

No limitation for air transport.

### SECTION 15 – REGULATORY INFORMATION

According to the Act No. 157/1998 Coll. on chemical substances and chemical preparations and on amendments in some other laws and acts, the components contained in the P-gp Drug Interaction Assay kit are non-hazardous substances in said concentrations.

### SECTION 16 – OTHER INFORMATION

Warranty:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Use of product: For R&D use only. Not for drug, household or other uses.