



PCRopsis™ Reagent 123

(NOT FOR RESALE)

v.20230206

INTENDED USE (research use only)

PCRopsis™ Reagent 123 is intended for nucleic acid extraction from diverse sample types.

PRINCIPLES OF THE PROCEDURE

PCRopsis™ Reagent 123 is engineered to simultaneously bind a variety of inhibitors found in samples, lyse microorganisms, and stabilize nucleic acids in a manner that's compatible with downstream applications. The product consist of a mixture of peptides, salts, stabilizers, buffers, and sodium azide to achieve these tasks. Reagent 123 allows for nucleic acid extraction of liquid samples without centrifugations, or other sample manipulations which may introduce errors, contaminants, and/or skew the representation of nucleic acid fragments.

WARNINGS & PRECAUTIONS

For Research Use Only.

- Observe approved biohazard precautions and aseptic techniques to prevent contamination of the product.
- Directions should be read and followed carefully.
- Do not re-pack.
- Do not ingest.

Storage: This product is ready for use and no further preparation is necessary. The product should be transported and stored in its original container at 4–25°C until used. Do not overheat or freeze prior to use. Improper storage will result in a loss of efficacy. Do not use after expiration date, which is printed on the label.

Product Deterioration: PCRopsis™ Reagent 123 should not be used if (1) there is evidence of damage or contamination to the product, (2) there is evidence of leakage, (3) the color of the reagent has changed from clear-white hazy, (4) the expiration date has passed, or (5) there are other signs of deterioration.

PROCEDURES

Materials Provided: PCRopsis™ Reagent 123

Materials Required But Not Provided: Heating device (heating block or thermal cycler), thin walled tube (0.2 ~ 0.6 mL) or 96-well PCR plate, plate sealer, pipette tips, and test sample

NOTE:

- Samples should be free of visual debris. This can be achieved by letting the sample sit for over 5 minutes to allow debris to settle or a brief centrifugation step, and then collecting the mostly clear supernatant in the top phase.
- Urine samples processed with Reagent 123 require the use of PCRopsis™ UrineA.
- PCRopsis™ Lysis Beads are recommended when working with bacteria, yeast / fungi, and spores.

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

1. Thoroughly mix PCRopsis™ Reagent 123 to ensure homogeneity, but avoid creating bubbles unnecessarily
 1. Reagent 123 has a hazy, white color when homogenized and normal settlement occurs if not regularly mixed
2. Mix 1 volume of Reagent 123 (20 µL) with 1 volume of sample (20 µL) in a thin walled tube (0.2 ~ 0.6 mL) or 96-well PCR plate
 1. **For optimal results, the reagent needs to be added first to the tube before the sample is added.**
3. Pipette up & down to ensure complete mixing and then cap tube or apply plate sealer to plate to prevent evaporation
4. Heat diluted sample at 95°C and let cool at room temperature for 10 seconds before continuing
 1. Recommended heating times at 95°C:
 1. Mammalian: 5 minutes
 2. Viruses: 10~15 minutes
 3. Bacteria / Fungi: 15~20 minutes
 4. NOTE: heating for a longer period of time may improve the nucleic acid extraction efficiency
 2. Make sure the heating device has reached the desired temperature before applying sample.
 3. You may need to increase the heating time if increasing the volume of sample and reagent past 100 µl of each
 4. Sample heating can be performed using a controlled heating block or thermal cycler; however a device lid is highly recommended to minimize popping of tube caps or unpeeling of the plate sealer
5. Mix heated sample and use lysed / stabilized sample in your desired downstream application

AVAILABILITY – NOT FOR RESALE




One extraction refers to 20 µL of reagent

Cat. #	Description	
1230001	PCRopsis™ Reagent 123, 1 mL	50 extractions
1230025	PCRopsis™ Reagent 123, 25 mL	1250 extractions
1230100	PCRopsis™ Reagent 123, 100 mL	5000 extractions
1231000	PCRopsis™ Reagent 123, 1000 mL	50000 extractions

MANUFACTURER

Entopsis, Inc., 7600 NW 69th Ave, Medley, FL 33166, USA info@entopsis.com

Glossary of Symbols Used

RUO	Research use only		Storage temperature
REF	Manufacturer's catalog number	STERILE A	Sterile through aseptic techniques
LOT	Lot number		Manufacturer
	Expiration date (year/month)		