



PCRopsis™ Reagent RVD with RVD Enhancer

(NOT FOR RESALE)

v.20230206

INTENDED USE (Research use only. Not for use in diagnostic procedures.)

PCRopsis™ Reagent RVD with RVD Enhancer is intended for nucleic acid extraction from liquid samples.

PRINCIPLES OF THE PROCEDURE

PCRopsis™ Reagent RVD 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 consists of a mixture of peptides, salts, stabilizers, buffers, and sodium azide to achieve these tasks. Reagent RVD with RVD Enhancer allows for nucleic acid extraction from 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 RVD with RVD Enhancer 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 RVD with RVD Enhancer

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 RVD with RVD Enhancer require the use of PCRopsis™ Support.
 - PCRopsis™ Lysis Beads are recommended when working with bacteria, yeast / fungi, and spores.
1. Thoroughly mix PCRopsis™ Reagent RVD with RVD Enhancer to ensure homogeneity, but avoid creating bubbles unnecessarily
 1. Reagent RVD with RVD Enhancer has a hazy, white color when homogenized and normal settlement occurs if not regularly mixed
 2. Mix 1 volume of Reagent RVD with RVD Enhancer (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 10~20 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 applications



AVAILABILITY – NOT FOR RESALE

One extraction refers to 20 µL of reagent

Cat. #	Description		
78336001	PCRopsis™ Reagent RVD with RVD Enhancer, 1 mL	50	extractions
78336025	PCRopsis™ Reagent RVD with RVD Enhancer, 25 mL	1250	extractions
78336100	PCRopsis™ Reagent RVD with RVD Enhancer, 100 mL	5000	extractions
783361000	PCRopsis™ Reagent RVD with RVD Enhancer, 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)

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