



## PCRopsis™ Reagent RVD-RT

(not for resale)

v.20230206

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

PCRopsis™ Reagent RVD-RT is intended for nucleic acid extraction from samples at room temperature.

### **PRINCIPLES OF THE PROCEDURE**

PCRopsis™ Reagent RVD-RT, with PCRopsis™ Activator, is engineered to simultaneously bind a variety of inhibitors found in samples, lyse viruses / mammalian cells, and stabilize RNA and DNA 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 RVD-RT allows for nucleic acid extraction 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. Reagent RVD-RT should be transported and stored in its original container at 4–25°C, while PCRopsis™ Activator should be transported and stored in its original container at 10–25°C. Do not store the mixture of Reagent RVD-RT with Activator for more than 4 hours at room temperature or more than 24 hours at 4°C. Do not overheat or freeze prior to use. Bring product to room temperature if ice crystals are observed. Improper storage will result in a loss of efficacy. Do not use after expiration date, which is printed on the label.

**Product Deterioration:** Product 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-RT and PCRopsis™ Activator

**Materials Required But Not Provided:** Tube (0.1 ~ 0.5 mL) or 96-well PCR plate, plate sealer, pipette tips, and test sample

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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.

1. Thoroughly mix PCRopsis™ Reagent RVD-RT to ensure homogeneity, but avoid creating bubbles unnecessarily
  1. Reagent RVD-RT has a hazy, white color when homogenized and normal settlement occurs if not regularly mixed
2. Thoroughly mix 50 µL PCRopsis™ Activator with 950 µL PCRopsis™ Reagent RVD-RT. Called **activated Reagent RVD-RT** from here onwards.
  1. This mixture is stable for ~4 hours at room temperature and ~24 hours at 4°C
3. Mix 1 volume of activated Reagent RVD-RT (20 µL) with 1 volume of sample (20 µL) in a sterile tube (0.1 ~ 0.5 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.**
4. Thoroughly pipette up & down to ensure complete mixing and then cap tube or apply plate sealer to plate to prevent evaporation
5. Incubate sample mixture at room temperature (~25°C) for 10 minutes
  1. The sample mixture can be heating at 95°C for 10 minutes when processing difficult to lyse microorganisms or for select applications
  2. Processed sample should be used within 4 hours when stored at room temperature
6. Mix processed sample and use in your desired downstream applications

**AVAILABILITY – NOT FOR RESALE**




One extraction refers to 19 µL of reagent + 1 µL Activator

Cat. #	Description		
78378001	PCRopsis™ Reagent RVD-RT, 1 mL	>50	extractions
78378025	PCRopsis™ Reagent RVD-RT, 25 mL	>1250	extractions
78378100	PCRopsis™ Reagent RVD-RT, 100 mL	>5000	extractions
783781000	PCRopsis™ Reagent RVD-RT, 1000 mL	>50000	extractions

**MANUFACTURER**

Entopsis, Inc., 7600 NW 69th Ave, Medley, FL 33166, USA [info@entopsis.com](mailto:info@entopsis.com)

**Glossary of Symbols Used**

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