



## PCRopsis™ Reagent RVD-E

( Not for Resale )

v.20230206

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

PCRopsis™ Reagent RVD-E is intended for nucleic acid extraction directly from swabs.

### **PRINCIPLES OF THE PROCEDURE**

PCRopsis™ Reagent RVD-E is engineered to simultaneously elute material from swabs, bind a variety of inhibitors found in samples, lyse specimens, 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 this task. Reagent RVD-E 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. 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-E 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-E

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

**Recommended swabs:** synthetic swabs (nylon, rayon, dacron, polyester) with aluminum or plastic shafts

**Material to be tested:** specimen-containing swab properly transported in a sterile tube

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



1. Thoroughly mix Reagent RVD-E to ensure homogeneity, but avoid creating bubbles unnecessarily
  1. Reagent RVD-E has a hazy, white color when homogenized and normal settlement occurs if not regularly mixed
2. Elute material from swab:
  1. Add ~100  $\mu$ L of Reagent RVD-E to transport tube with swab
  2. Make sure the swab is at least partially submerged into Reagent RVD-E
  3. Vortex for ~30 seconds, 3 times, to elute sample
3. Nucleic acid extraction:
  1. Transfer ~50  $\mu$ L of eluted sample into a thin-walled PCR tube / plate and then cap tube or apply plate sealer to plate to prevent evaporation
  2. Heat at 95°C
    1. Mammalian: 5 minutes
    2. Viruses: 10~15 minutes
    3. Bacteria: 15~20 minutes
    4. NOTE: heating for a longer period of time may improve the nucleic acid extraction efficiency
  3. Let cool at room temperature for ~10 seconds before continuing
4. Pipette up & down to ensure complete mixing
5. Use lysed / stabilized sample in your desired downstream application

**AVAILABILITY – NOT FOR RESALE**








One extraction refers to 100  $\mu$ L of reagent

Cat. #	Description		
7833001	PCRopsis™ Reagent RVD-E, 1 mL	10	extractions
7833025	PCRopsis™ Reagent RVD-E, 25 mL	250	extractions
7833100	PCRopsis™ Reagent RVD-E, 100 mL	1000	extractions
78331000	PCRopsis™ Reagent RVD-E, 1000 mL	10000	extractions

**MANUFACTURER**

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## Glossary of Symbols Used

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