



# PCRopsis™ Reagent SRVD

**For In Vitro Diagnostic Use**

REF #: 7783025, 7783100, 77831000

Store at room temperature

## INTENDED USE

PCRopsis™ Reagent SRVD is intended for extraction-free amplification of RNA or DNA from properly collected and transported saliva samples.

## 01 INTRODUCTION

PCRopsis™ Reagent SRVD is engineered to simultaneously bind a variety of reverse transcriptase quantitative polymerase chain reaction (RT-qPCR) and PCR inhibitors found in saliva specimens, lyse cells and stabilize nucleic acids in a manner that's compatible with RT-qPCR / PCR. The product consists of a proprietary mixture of peptides, salts, stabilizers, buffers and sodium azide to achieve this task. Reagent SRVD allows for extraction-free amplification of RNA / DNA from saliva specimens without performing nucleic acid isolation, centrifugations or other sample manipulations, which may introduce errors, contaminants and/or skew the representation of RNA fragments.

## 02 PRODUCT SIZE

Catalog Number	Volume
7783025	25 mL
7783100	100 mL
77831000	1000 mL

## 03 STORAGE & STABILITY

PCRopsis™ Reagent SRVD is shipped and stored at room temperature. The recommended storage temperature is: 4°C ~ 25°C

## 04 TRANSPORT MEDIUM COMPATIBILITY

### **RECOMMENDED:**

- no transport medium
- Universal Transport Mediums
- Viral Transport Mediums
- 10 mM Tris pH 8 + antibiotics

### **NOT RECOMMENDED:**

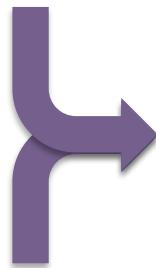
- ◆ Mediums containing guanidinium thiocyanate

NOTE: the user must confirm the compatibility of Reagent SRVD with desired saliva samples

## 05 OVERVIEW OF PROTOCOL



Reagent  
SRVD



Mix 20 µL  
Reagent SRVD +  
20 µL Sample /  
well



Saliva Sample

Heat Reagent RVD +  
Sample mixture to  
95°C for 10 minutes



Use 5~10 µL of  
processed sample  
into your desired  
RT-qPCR / PCR  
mixture



NOTE: samples can be  
heated in a thermal cycler  
or heating block

Recommended heating times:

- Mammalian: 5 minutes
- Viruses: 10 minutes
- Bacteria: 15 minutes

NOTE: heating for a longer period of time  
does not negatively affect results

## 06 WRITTEN PROTOCOL

1. Thoroughly mix Reagent SRVD to ensure homogeneity, but avoid creating bubbles unnecessarily
  1. Reagent SRVD has a hazy, white color when homogenized and normal settlement occurs if not regularly mixed
2. Mix 1 volume of saliva sample (20 µL) with 1 volume of Reagent SRVD (20 µL) in a thin walled tube (0.2 ~ 0.6 mL) or 96-well PCR plate
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 minutes
    3. Bacteria: 15 minutes

NOTE: heating for a longer period of time does not negatively affect results
  2. Make sure the heating device has reached the desired temperature before applying sample

## 06 WRITTEN PROTOCOL

3. Sample heating can be performed using a controlled heating block or thermal cycler
5. Mix heated sample and use 5 - 10 µL of lysed / stabilized sample in your desired RT-qPCR / PCR procedure
  1. Lysed sample can represent 25%~50% of your final RT-qPCR mixture (i.e., 5 ~ 10 µL sample into a total volume of 20 µL)

## 07 STEP-BY-STEP PROTOCOL WITH FIGURES

### Step 1



Gently invert  
Reagent SRVD to ensure  
homogeneity

PCRopsis™ Reagent SRVD

### Step 2



Add Reagent SRVD to  
reservoir

### Step 3



Add 20 µL of  
Reagent SRVD to wells  
in a 96-well PCR plate

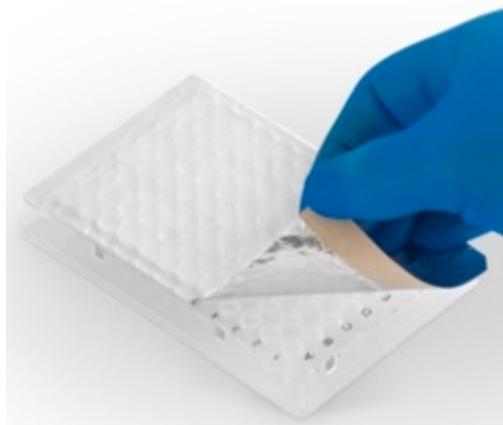
## 07 STEP-BY-STEP PROTOCOL WITH FIGURES

### Step 4



Mix 20 µL of sample to wells containing 20 µL of Reagent SRVD

### Step 5



Seal 96-well plate with a plate sealer to prevent evaporation

### Step 6

Pre-heated thermal cycler or heating block before applying plate



Recommended heating times:

- Mammalian: 5 minutes
- Viruses: 10 minutes
- Bacteria: 15 minutes

NOTE: heating for a longer period of time does not negatively affect results

Heat Reagent SRVD + sample mixture at 95°C for recommended time

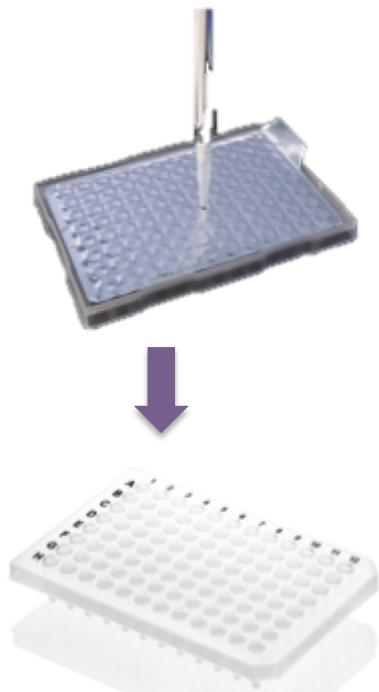
## 07 STEP-BY-STEP PROTOCOL WITH FIGURES

Step 7



Add 10~15 µL RT-qPCR mix from your desired vendor to a new plate

Step 8



Mix 5~10 µL of heated sample + Reagent SRVD mixture with your RT-qPCR mix

Step 9



Detect amplification of target genes using your desired qPCR equipment

## 08 TROUBLESHOOTING & SUGGESTIONS

1. Reagent SRVD is optimized for the amplification of gene targets from saliva specimens and may not be applicable for other applications or mediums.
2. For best results, use recently collected samples in compatible transport mediums that have been stored at ~4°C since collection.
3. Samples are diluted 50% with Reagent SRVD. As such, you should expect to observe slightly higher Ct's compared to nucleic acid extracted samples.
4. Ct cut-offs for assays should be increased, often times to 45 cycles.
5. Take care in maintaining the sterility of your Reagent SRVD stock after use.
6. Heat Reagent SRVD / sample mixture for a few minutes longer if you observe suboptimal lysis.
7. It's recommended to use the heated Reagent SRVD + sample mixture for downstream applications within a day, although samples may be stable for months at 4°C or -20°C.
8. Use **RVD Enhancer** (cat#783364010) in combination with Reagent SRVD if sub-optimal results are observed with your specimen transport medium and/or gene target.

## 09 CONTACT

Contact our research team if assistance with Reagent SRVD is necessary ([info@entopsis.com](mailto:info@entopsis.com)). We will try our best to assist with non-intended applications of this product or direct you to alternative products. Any business related questions should be directed to: **Sales@PCRopsis.com**.



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**NOT FOR RESALE**

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PCRopsis™ Reagent SRVD

