



PCRopsis™ In-Well Kit

(NOT FOR RESALE)

v.20240302

INTENDED USE (research use only)

PCRopsis™ In-Well Kit is intended for DNA extraction of diverse sample types within the PCR mixture.

PRINCIPLES OF THE PROCEDURE

PCRopsis™ In-Well Kit is engineered to simultaneously bind a variety of inhibitors found in samples, lyse microorganisms, and stabilize DNA directly from the PCR mixture; no need for separately extracting DNA and then adding your extracted DNA to the PCR mixture. The product consist of a mixture of peptides, salts, stabilizers, buffers, and sodium azide to achieve these tasks. PCRopsis™ In-Well Kit allows for DNA extraction of liquid samples without centrifugations, or other sample manipulations which may introduce errors, contaminants, and/or skew the representation of DNA 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™ In-Well Kit 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™ In-Well Kit (PCRopsis™ In-Well: A and PCRopsis™ In-Well: B)

Materials Required But Not Provided: Thermal cycler, thin walled tube (0.2 ~ 0.6 mL) or 96-well PCR plate, plate sealer, pipette tips, PCR mixture with primers and probe, and test sample in non-inactivating transport mediums. OPTIONAL: PCRopsis™ Lysis Beads

1. Invert vials or bottles of PCRopsis™ In-Well: A and PCRopsis™ In-Well: B to ensure homogeneity, without producing excessive bubbles.

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



2. Prepare a complete PCR mixture by adding PCRopsis™ In-Well: A at a ratio of 1:10 and PCRopsis™ In-Well: B at a ratio of 1:20 based on the final volume when your sample is added.

For example (10 PCR tests at a final volume of 10 µL):

50 µL	2x Master Mix (Taq + dNTPs + buffer)
10 µL	Primers + Probes
10 µL	PCRopsis™ In-Well: A
5 µL	PCRopsis™ In-Well: B

3. Pipette the complete PCR mixture from step #2 (e.g., 7.5 µL from the above example) into thin walled tubes or wells from a 96-well PCR plate.
4. Add your sample to the complete PCR mixture (e.g., 2.5 µL of sample from the above example)
 1. For best results, samples containing bacteria, yeast, tissue, or material that may be difficult to lysis should be pre-processed with PCRopsis™ Lysis Beads before adding the sample to the complete PCR mixture.
 2. For best results, samples need to be in non-inactivating transport mediums (i.e., mediums that do not contain alcohols, guanidine thiocyanate, or other enzyme inhibitors).
5. Cap tubes or place a plate sealer on the 96-well plate, and place in a thermal cycler.
6. The initial heating step (denaturation) needs to be at 95°C for 10 ~ 15 minutes in the thermal cycler program. DNA is extracted from your sample during this step.
 1. Set the remaining thermal cycler conditions as desired.

AVAILABILITY – NOT FOR RESALE




One extraction refers to 1 µL PCRopsis™ In-Well: A + 0.5 µL PCRopsis™ In-Well: B

Cat. #	Description		
469001	PCRopsis™ In-Well Kit	1,000	extractions
469002	PCRopsis™ In-Well Kit	5,000	extractions
469003	PCRopsis™ In-Well Kit	30,000	extractions

MANUFACTURER

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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)		