

# 5x Cell Lysis Buffer

Universal cell lysis buffer for numerous cell types



Cat. No. PCL001

PATENT PENDING

## PRODUCT INFORMATION SHEET

### Features:

- Single lysis buffer for numerous cell types (including mammalian, bacterial and fungal cells).
- Compatible with PCRopsis Cell (cat. no. CPO001)

### Description:

The 5x Cell Lysis Buffer by PCRopsis offers a common means of accessing DNA and proteins from numerous cell types. You no longer need to switch reagents and protocols based on cell types. Furthermore, you ensure thorough access to DNA from various organisms in mix cultures, like soil, stool and microbiome studies; thus revealing accurate representation of microorganisms.

### Protocol:

- 1) Collect desired cells in PBS
  - a) Other buffers may be suitable
- 2) Add 5x Cell Lysis Buffer to make a 1x suspension.
  - a) Example: add 25  $\mu$ L 5x Cell Lysis Buffer / 100  $\mu$ L of cell suspension
- 3) Heat cell suspension at 95°C ~100°C for 10 minutes to lyse cells, and then thoroughly mix suspension before use
- 4) Use lysate in desired application
  - a) Lysate can be directly applied to PCRopsis Cell (no need to centrifuge lysate)

### Contents:

	Qty.	Storage Temp.
5x Cell Lysis Buffer	1	Room temp.
Product Info. Sheet	1	-

**Note:** This product is for research use only and should only be used by trained professionals. Wear protective gloves and eye protection. Follow the safety guidelines and rules enacted by your institution. A commercial license must be purchased from Entopsis LLC if this product is to be used for any commercial purposes within or outside of the United States of America.

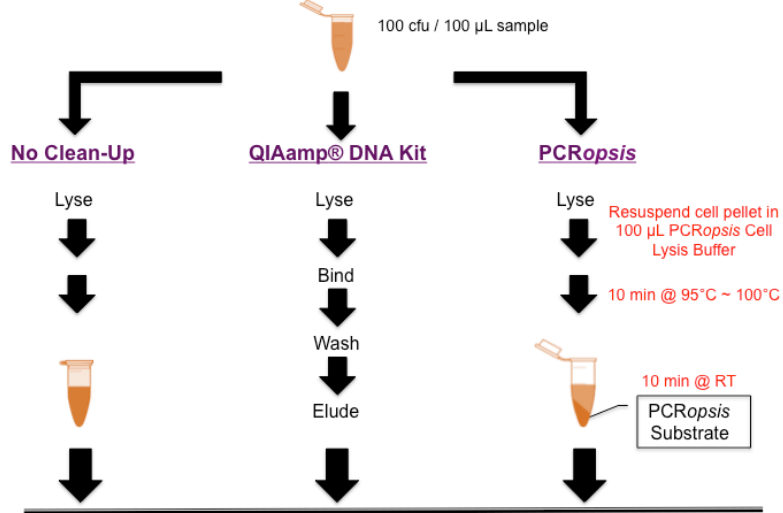
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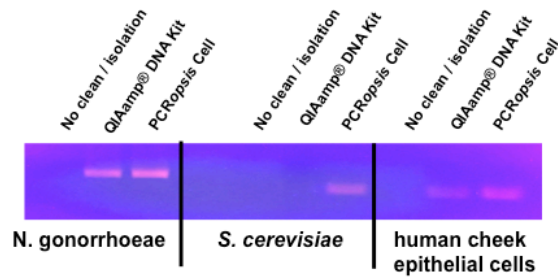
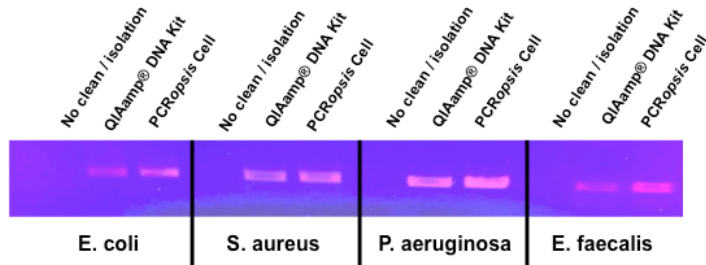


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## Run PCR on isolated DNA or directly from lysate

- Use 2 µL of sample / reaction
- Degenerate primers aimed at amplifying bacterial 16S rRNA were used for bacterial samples
  - Primers aimed at amplifying GAPDH were used for yeast and human cells



Lysing bacterial, yeast and human cells with PCRopsis' 5x Cell Lysis Buffer + heating followed by processing with PCRopsis Cell tubes for just 10 minutes allows for the detection of all cell types. Qiagen's QIAamp® DNA Kit was not able to detect *S. cerevisiae*, but detected all other cell types. No amplification was observed when the lysate was directly placed into the PCR mixture without pre-incubation with PCRopsis Cell tubes or DNA isolated using QIAamp® DNA Kit.

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