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 Cell PCR*opsis*

Description:

The 5x Cell Lysis Buffer by PCR*opsis* 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 (e.g., swab inner cheek, wound, skin, etc. with a cotton applicator).
   a) 100 ~ 100,000 cells / sample works best.
2) Place cells in ~0.5 mL PBS or water by submerging the applicator in the buffer and twirling the applicator to dislodge cells.
3) Add 5x Cell Lysis Buffer to make a 1x suspension.
   a) Example: add 25 µL 5x Cell Lysis Buffer / 100 µL of cell suspension
4) Incubate cell suspension at room temperature for 5 minutes.
5) Heat cell suspension at 95°C ~100°C for 10 minutes to lyse cells, and then thoroughly mix suspension before use.
6) Directly use lysate with Cell PCR*opsis* substrates (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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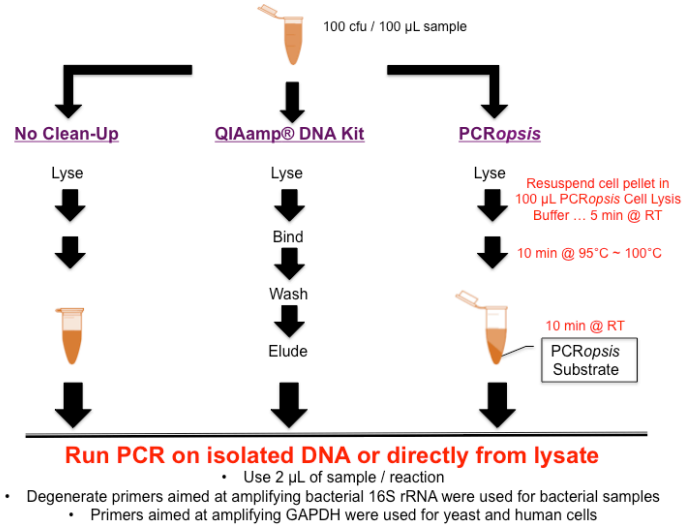

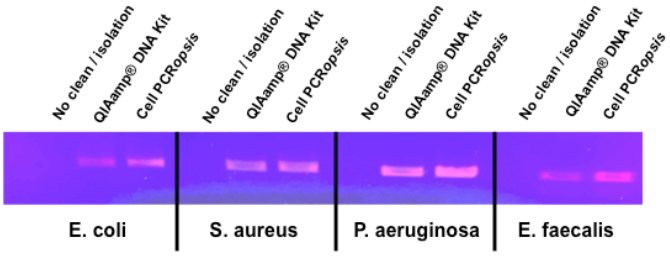

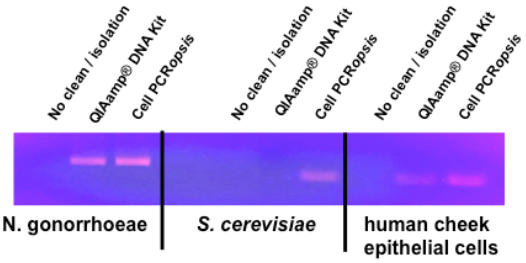

Lysing bacterial, yeast and human cells with PCR*opsis'* 5x Cell Lysis Buffer + heating followed by processing with Cell PCR*opsis* tubes for just 10 minutes allows for the detection of all cell types. Qiagen's QIAamp® DNA Kit was not able to detect S. cerevisiae, but detected all other cell types. No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

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