PRODUCT INFORMATION SHEET

GROW'N'GLOW YEAST PLASMID ISOLATION KIT # 2069-2

USEFUL KIT NOT ONLY FOR TWO- AND ONE-HYBRID SCREENING 100 preps

1. PRODUCT DESCRIPTION AND APPLICATION

- *Purification of plasmid DNA from yeast for PCR* and bacterial transformation*
- *Purification of plasmid DNA from bacteria*
- *No phenol/chloroform extractions*
- *No alcohol precipitation*
- *DNA is eluted in H_2O and is ready for use*

The Grow'n'Glow Yeast Plasmid Isolation Kit is designed for the isolation of plasmid DNA from yeast cells. It uses DNA purification with porous glass in conjunction with spin filter technology to increase throughput and achieve optimal DNA quality. The isolated DNA can be used successfully in PCR screens and bacterial transformations. The same kit can be used to isolate plasmid DNA from recombinant bacteria for use in any downstream application (PCR, sequencing, restriction enzyme analysis, labeling, etc.). This dual purpose kit is ideal for screening putative positive yeast transformants obtained from two-hybrid screens.

2. COMPONENTS

	for 12 preps	for 100 preps
• Yeast lysis matrix	0.4 g x 12 tubes	0.4 g x 100 tubes
• Alkaline lysis solution	4 ml	32 ml
• Neutralizing solution	4 ml	32 ml
• Spin buffer with porous glass	4 ml	32 ml
• Wash solution concentrate*	7 ml	56 ml
• Spin filters	12	100
• Catch tubes	12	100
• Pre-lysis buffer	0.75 ml	6 ml

* Dilute with equal amount (1:1) of 100 % ethanol and mix before initial use.

3. PROTOCOL

1. Temporarily remove yeast lysis matrix from screw cap tube by pouring into another clean tube or container. Add 1.5 ml yeast culture to the empty tube and spin for 30 seconds to pellet the cells. Discard the supernatant.

2. Pour the yeast lysis matrix back into the tube, add 250 µl alkaline lysis solution and vortex continuously for 5 minutes.

* PCR is a process covered by patents owned by Hoffmann-La Roche. Use of this process requires a licence.

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Note: The presence of detergents in the lysis solution will cause the sample to foam. To facilitate the processing of multiple samples, use a multi-tube holder attached to the vortex machine.

3. Add 250 µl neutralizing solution; mix by brief vortexing and spin 2 minutes at room temperature. Transfer the supernatant to a spin filter and insert it in a catch tube, avoiding the precipitated debris and lysis matrix.

4. Add 250 µl spin buffer with porous glass; invert to mix; spin 1 minute and decant the catch tube.

5. Add 500 µl wash solution; spin 1 minute and decant the wash. Repeat the wash step; decant the catch tube and spin for 1 minute to drive the last of the liquid out of the spin filter. Transfer the filter to a new catch tube.

6. Add 100 µl sterile H_2O; vortex briefly (at no more than half speed) to resuspend and spin 30 seconds to collect the DNA in the bottom of the catch tube; discard the filter containing used matrix. Use 5 µl for transformation and PCR analysis.

Note: Electroporation is preferred over $CaCl_2$ heat shock when transforming bacterial cells.

4. ISOLATION OF PLASMID DNA FROM BACTERIA

When using the kit to isolate plasmid DNA from bacteria, do not use the yeast lysis matrix in step 2. Resuspend pelleted cells from 1.5 ml cultures in 50 µl pre-lysis buffer, and 100 µl of alkaline lysis solution and invert several times to mix. Add 100 µl of neutralizing solution and continue with step 3. Elute the purified plasmid DNA with 50 µl of sterile H_2O in step 6.

5. ORDER INFORMATION, SHIPPING & STORAGE

order #	description	amount
2069-0	Grow'n'Glow Yeast Plasmid Isolation Kit	12 preps
2069-2	Grow'n'Glow Yeast Plasmid Isolation Kit	100 preps

Shipped and stored at RT.

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