

شرکت تحقیقاتی تولیدی پویاژن آزما

POUYA GENE AZMA Co.  
(PGA)

## PGA Yeast and Fungi DNA Extraction kit

Catalog No. PF230-050

Quantity: 50 Preps

Store at: RT

For research use only

نشانی: تهران خیابان پاسداران میدان اختیاریه،

خیابان شهید زرنگ، ابتدای خیابان شهید دوقوز

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## **KIT CONTENTS:**

Buffer L	10 ml
Buffer D	2.5 ml
Solvent Buffer	2.5 ml
RNase A	35 $\mu$ l

## **Need contents :**

cold ethanol % 100

cold ethanol % 70

## **Kit Description:**

This kit contains all ingredients for quick preparation of pure DNA from Yeast and Fungi. This kit presents remarkable features of timesaving, easy, prompt and high yield DNA purification. The procedure requires 30 minutes and does not require phenol extraction . DNA obtained by this method can be used for all molecular biology procedures (PCR, restriction digestion, cloning, Southern blot, DNA sequencing, etc.).

**Attention: before use , please add RNase A in Buffer L and keep in 4 °C**

## **LABORATORY PROTOCOL:**

**1: Grow 3-5 ml yeast or fungi cultures to saturation in SDA or other suitable culture media.**

**2: Transfer to microfuge tube. Spin at 13000 rpm for 1 min. pour off supernatant completely.**

**3: Add 300 µl L buffer to yeast's pellet or to 30-50 mg fungi mycelium (wet weight) , vortex 3-4 minutes.**

**4: Add 180 µl D buffer to tube and inverting for 10 times (15 Seconds). (when add D buffer in tube and inverting , produce white precipitate in microtube)**

**5: Microcentrifuge at 13000 rpm for 10 minutes.**

**6: Transfer the Supernatant to a new tube.**

**( important: do not transfer precipitate in new tube. If transfer of precipitate in it please repeat 9 and 10 steps again )**

**7: Add 2 volumes cold ethanol %96 - %100 in solution and inverting gently for 5 times.**

**8: Microcentrifuge at 13000 rpm for 5 minutes.**

**9: Pour off the ethanol by inverting tube gently and keep precipitate.**

**10: Washing the precipitate by adding 700  $\mu$ l cold ethanol %70 and inverting 2-3 times.**

**11: Microcentrifuge at 13000 rpm for 1 minute.**

**12: Pour off the ethanol completely and dry pellet for 2-3 minutes in room temperature.**

**13: According to precipitate Add 20 - 50  $\mu$ l Solvent Buffer in tube. The precipitate must be solved completely.**