Yeastern Biotech Co., Ltd

UniversAll™

Tissue Extraction Kit

Product Use Limitation & Warranty

This product is intended to be used for life science research only. It has not been approved for drug or diagnostic purpose. YEASTERN's products should not be resold, modified for resale, or used to manufacture commercial products without written approval by YEASTERN. YEASTERN guarantees the performance of all products in the manner described in our protocol. The purchaser must determine the suitability of the product for its particular use. Should any product fail to perform satisfactorily due to any reason other than misuse, YEASTERN will replace it free of charge.

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Cat. No.
FYU002-5ML
FYU002-50ML

Storage: -20 °C

Cat. No.	Product	Package
FYU002-5ML	UniversAll™ Tissue Exraction Buffer	5 ML
FYU002-50ML	UniversAll™ Tissue Exraction Buffer	50 ML

1. DNA extraction

(1) **Mix the extraction buffer well before use.** The UniversAll™ Extraction Buffer needs to be prepared before sample extraction by adding **2 µl of the Extraction enhancer to 50 µl of the Extraction Buffer.** It can increase extraction efficiency for the majority of difficult samples. (If precipitates have formed in the extraction enhancer, warm the enhancer solution in a 37°C water bath to dissolve, then mix well.)

(2) Add 50 µl of the UniversAll™ Extraction Buffer to each tissue sample (~1 mm^3) in a microcentrifuge tube and mix well by tapping the bottom of the tube or pipetting several times in the tube if necessary. Make sure the sample block is submerged in the buffer. For samples like 0.1X serum, saliva and sputum, up to 50 µl of the samples can be extracted using 50 µl of the buffer.

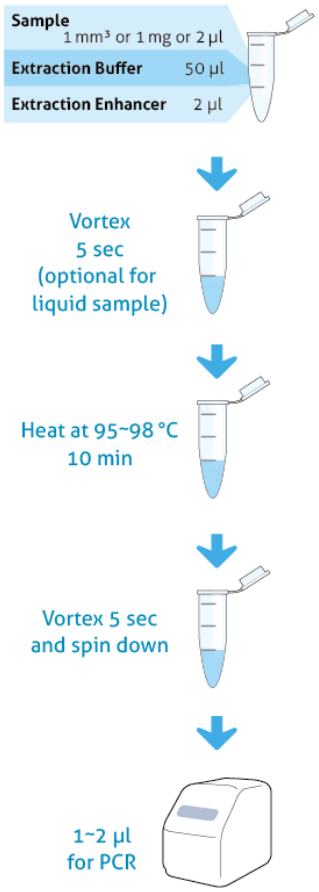
(3) Vortex 5 sec (optional for liquid sample.)

(4) Heat at 95-98°C for 10 min.

(5) Vortex and centrifuge briefly.

(6) Use 1-2 µl of DNA extract for PCR amplification or qPCR analysis.

(7) For those difficult samples that contain paraffin, phenolic compounds, heavy metals or some unknown inhibitory metabolites, a 10~100X serial dilution of the lysate is recommended before PCR amplification. The dilution can be done simply using PCR-grade water.

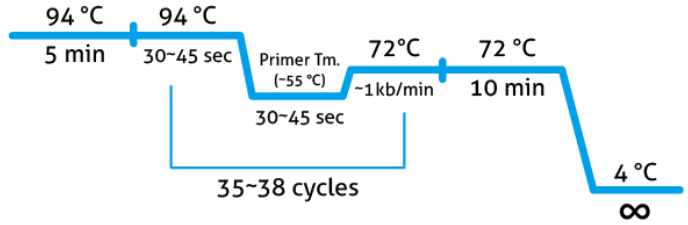


2. PCR amplification

A. Components for standard PCR

Components	Volume (µl)	Final Concentration
10X PCR-K Reaction Buffer	2.5	1X
10 mM dNTPs Mix	0.5	0.2 mM
Primer F (10 µM)	0.5	0.2 µM
Primer R (10 µM)	0.5	0.2 µM
Tissue lysate or serially diluted (10~100X) lysate	1-2	n/a
DNA polymerase (5 U/µl)	0.5	~2.5 units
ddH_2O	to 25 µl	

B. PCR Condition (depend on the PCR kit used)



3. Post-amplification analysis

After amplification, PCR products can be analyzed using 1% agarose gel.

Kit components

FYU002-5ML

Components	Quantity
UniversAll™ Extraction Buffer	5 ml (1.25 ml×4)
Extraction Enhancer	250 µl

FYU002-50ML

Components	Quantity
UniversAll™ Extraction Buffer	50ml (25 ml×2)
Extraction Enhancer	2.5 ml (1.25 ml×2)

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