UniversAll™ Animal Tissue Extraction Buffer

Cat. No. FYU003-20ML Storage: -20 °C

The UniversAll™ Animal Tissue Extraction Buffer is designed to enable DNA amplification directly from animal tissue lysate without DNA purification. Just cut the animal tissue and incubate it in the extraction buffer for 10 minutes at 98 °C and then use 1 µl of lysate for PCR. No Proteinase K treatment is necessary.

1. DNA extraction

(1) Cut 1 mm^3 or 1 mg of animal tissue and transfer to a microcentrifuge tube.

(2) **Mix the extraction buffer well before use.**

(3) Aliquot 200 µl of the extraction buffer to the tube containing animal tissue sample and mix well by tapping the bottom of the tube. Make sure the sample block is submerged in the buffer.

(4) Heat at 98 °C for 10 min.

(5) **Vortex and centrifuge briefly.**

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

2. PCR amplification

Components for standard PCR (Recommended)

Components	Volume (µl)	Final Concentration
10X PCR 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
Animal tissue lysate	1-2	n/a
DNA polymerase (5 U/µl)	0.5	~2.5 units
ddH_2O	to 25 µl	

3. Post-amplification analysis

After amplification, PCR products can be analyzed using 1% agarose gel and visualized by EtBr staining.