Modified KAPA Express Extract

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Abstract

KAPA Express Extract is a novel thermostable protease and buffer system that allows for the extraction of PCR-ready DNA from various tissue types in as little as 10 min. This protocol uses half the normal reaction mix.

Citation: Michael Crone Modified KAPA Express Extract. **protocols.io** dx.doi.org/10.17504/protocols.io.czwx7d
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Guidelines

When running program on PCR machine incubate at 75ºC and then 95ºC consecutively and then cool the reaction products to 4ºC.

Protocol

Reaction Setup

Step 1.
Reaction Setup

	Volume
KAPA Express Extract Buffer	5 µl
1U/µl KAPA Express Extract Enzyme	1 µl
PCR-Grade Water	44 µl
Sample	

PROTOCOL

. KAPA Express Extract Reaction Mix

CONTACT: Michael Crone
Step 1.1.
10 X KAPA Express Extract Buffer, **5 µl**

AMOUNT
5 µl Additional info:

Step 1.2.
1U/µl KAPA Express Extract Enzyme, **1 µl**

AMOUNT
1 µl Additional info:

Step 1.3.
Water, **44 µl**

AMOUNT
44 µl Additional info:

Step 1.4.
Sample

Lysis

Step 2.
Incubate in a thermocycler for 10 minutes at 75ºC. During this step, cells are lysed, nucleases and proteins degraded and DNA released.

DURATION
00:10:00

Inactivation

Step 3.
Incubate for 5 minutes at 95ºC to inactivate the thermostable KAPA Express Extract protease.

DURATION
00:05:00

Centrifugation

Step 4.

Vortex reaction product for 2-3 sec. Centrifuge at high speed for 1 minute to pellet debris.

Transfer DNA-containing supernatant to a fresh tube.

Use 1 µl of DNA extract directly in a 25 µl PCR, without quantification.

Dilute in TE Buffer for long-term storage at -20ºC.