

# EzDirect™ Buffer (3.0)

**RUO** For Research Use Only

**REF** W5101 / W5102

## DESCRIPTION

EzDirect™ Buffer (3.0) is designed to perform PCR directly from various samples with no prior DNA purification. Samples such as buccal swabs, saliva, tissue and plant (leaf & seed) are suitable materials. This kit is extremely easy and simple, just mix with the sample and buffer for preparing PCR.

## KIT CONTENTS

Contents	W5101	W5102
EzDirect™ Buffer (3.0)	25 ml	50 ml

## APPLICATIONS

- Direct-PCR

## STORAGE CONDITIONS

Store at room temperature.

## QUALITY CONTROL ANALYSIS:

In accordance with Wizbiosolutions Inc. ISO 13485-certified Quality Management System, each lot EzDirect™ Buffer (3.0) is tested against predetermined specifications to ensure consistent product quality.

## PROTOCOL

*The optimum usage is depending on the experiment and specimen, please optimize the sample and PCR template volume by each condition.*

### A. Buccal swab

1. Add 100µl of EzDirect™ Buffer to 1.5ml micro tube.
2. Put the entire head of the swab and break handle.
3. Close the 1.5ml tube cap and mix by vortex for 30 sec.
4. Store at R/T for 10 min.  
*If the sample does not lysis easily, incubate at 80°C for 10 min.*
5. Use 1~5µl of supernatant directly to PCR reaction.

### B. Animal tissue / Mouse tail / Plant tissue

1. Place a 1~2mm piece (10~50mg) of tissue into the 1.5ml micro tube.
2. Add 100µl of EzDirect™ Buffer and mix by vortex 30 sec.
3. Store at R/T for 10 min.  
*If the sample does not lysis easily, incubate at 80°C for 10 min.*
4. Use 1~5µl of supernatant directly to PCR reaction.

### C. Cultured Cell

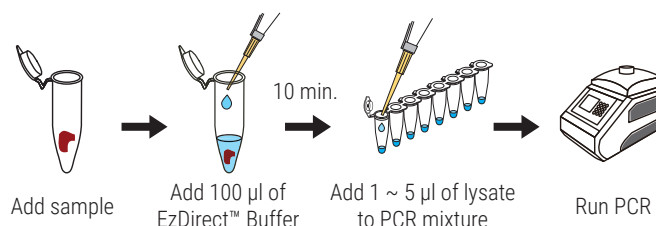
1. Prepare 1~2ml of floating cell or 1~5mg of adhesive cell.
2. Centrifuge at 10,000g for 5 minute.
3. Discard supernatant by pipetting.
3. Add 100µl of EzDirect™ Buffer and mix by vortex 30 sec.
3. Store at R/T for 10 min.  
*If the sample does not lysis easily, incubate at 80°C for 10 min.*
4. Use 1~5µl of supernatant directly to PCR reaction.

*If you can not test immediately, keep the lysate in the freezer. the lysate stable for 1 month.*

## TROUBLE SHOOTING GUIDE

- If no PCR amplification,  
*Reduce the amount of template by 0.5 µl and reacts again.*

## SIMPLE PROTOCOL



## TECHNICAL DATA

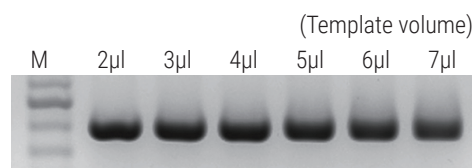


Fig 1. Animal tissue direct-PCR results with EzDirect™ Buffer. After incubation step (10 min.) 2~7µl of supernatant used as PCR template. Lane M : 100bp DNA marker

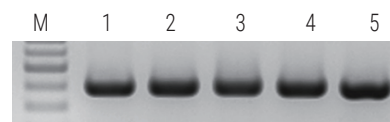


Fig 2. Animal tissue direct-PCR results with EzDirect™ Buffer. 10mg of animal tissue mixed with EzDirect™ Buffer and store at R/T for 10min. After incubation step 1µl of supernatant used as PCR template. Lane M : 100bp DNA marker Lane 1 : Bovine, Lane 2: Porcine, Lane 3: Sheep, Lane 4: Equine, Lane 5: Poultry

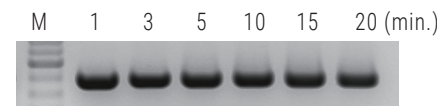


Fig 3. Direct-PCR test results of animal tissue by lysis time. 10mg of animal tissue mixed with EzDirect™ Buffer and store at R/T for 1~20min. After incubation step 1µl of supernatant used as PCR template. Lane M : 100bp DNA marker

## ORDERING INFORMATION

Product	Cat No.	Package
EzDirect™ Buffer (3.0)	W5101	25 ml
	W5102	50 ml

## Technical Support



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