Article	Reactions
SL-9102-20ML	20 mL Lysis Buffer
SL-9102-80ML	4 x 20 mL Lysis Buffer

Storage Conditions
Storage at 4 °C in the dark

High Performance Lysis Buffer

DESCRIPTION

The primaDIRECT PCR system combines sample lysis with direct PCR for fast and reliable genotyping and other standard PCR applications. **Samples of various origin** (tissue, cells, mouse tails, plant pieces) are lysed within 15 minutes using our proprietary RTL buffer - **without the need of** column- or magnetic-based **extraction procedures**.

The 2x PCR Master Mix is not included, please see SL-9614 for the PCR Master Mix.

SAMPLE LYSIS & PCR WORKFLOW

BEFORE YOU START

- **Do not vortex** to prevent damage to the included enzymes.

STEP 1: SAMPLE LYSIS

1. Fill 50 - 100 mg of your sample in to a 1.5 mL reaction tube
    1. If using cells, fill 10^3 - 10^6 cells in to a tube, spin it down at max speed and remove the supernatant medium
2. Add 50-200 µL primaDIRECT RTL buffer
3. Incubate at 56°C for 10-60 minutes
4. Incubate at 95 °C for 3-10 minutes to stop the enzymatic reactions
5. ***Optional:*** Spin down your sample and transfer the supernatant to a fresh 1.5 mL tube - recommended for long-term storage
6. Place your sample on ice while preparing the PCR reaction
7. Add 1-2 µL of your lysed sample to the PCR reaction mix.

LYSIS OF SAMPLE MATERIAL

- **The lysis will not visually degrade the sample - which is absolutely fine and does not have any influence on the PCR.**
- You can lyse various types of sample material such as cells, animal tissue, plant leaves, mouse ears or mouse tails.
- In general, use as little sample material for lysis as possible to reduce the amount of PCR inhibitors present in the reaction mixture.

STEP 2: PIPETTE PCR REACTION MIXTURE

NOTE

- The **primaDIRECT** lysis buffer system is compatible with various robust PCR Master Mixes such as the KAPA 2G ROBUST Readymix.
- As an option, **primaDIRECT can be obtained as a kit supplied with a 2x PCR Master Mix.**

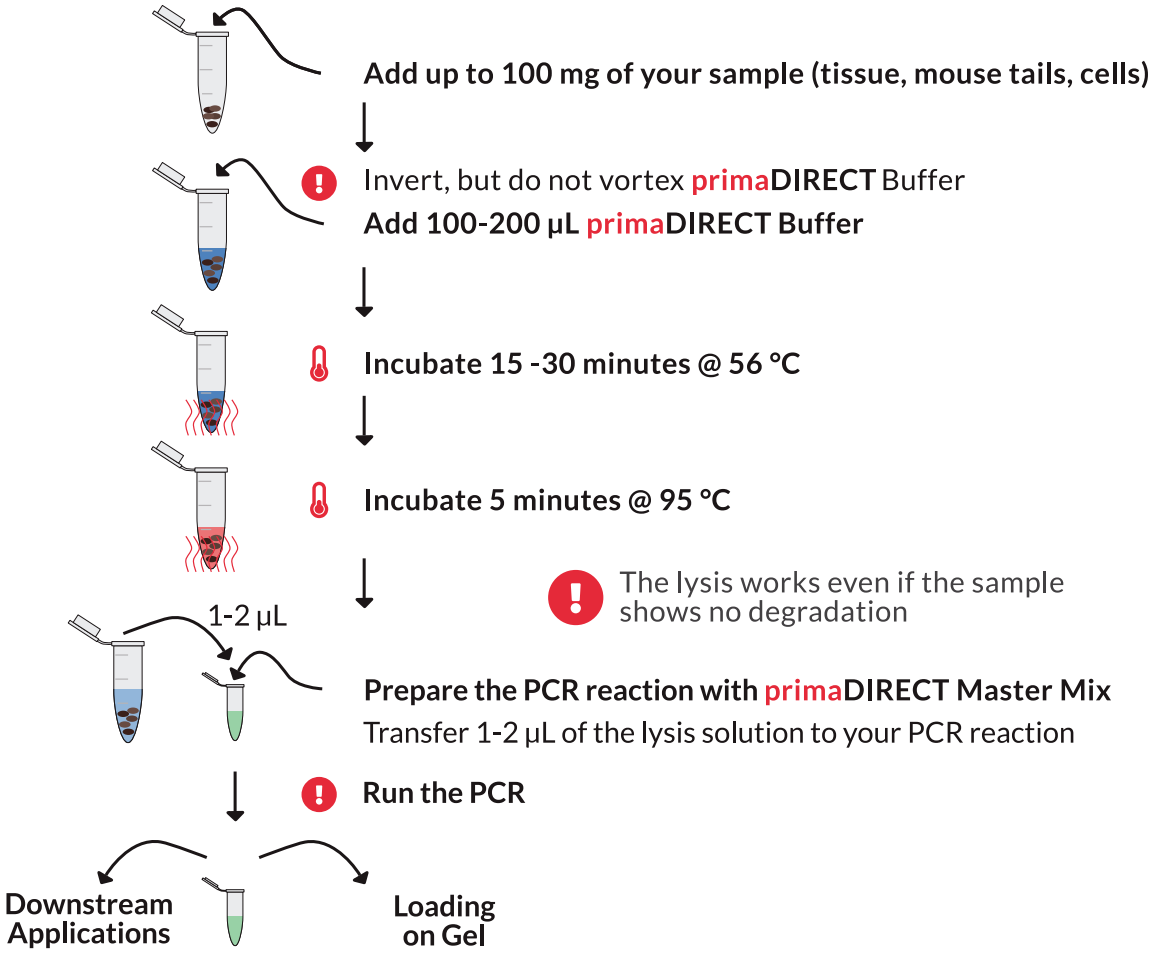
Components	25 µL Reaction	Final Concentration
2x primaDIRECT Master Mix or other 2x PCR Master Mixes	12.5 µL	1x
Forward Primer	variable (e.g. 2 µL)	200 - 400 nM
Reverse Primer	variable (e.g. 2 µL)	200 - 400 nM
Lysed Sample	**1-2 µL**	-
Sterile Water	**adjust to 25 µL**	

DID YOU KNOW?

- With our **primaDIRECT** 2x Direct-PCR Master Mix you can perform ultra-fast Direct-PCR without further purifications.

GRAPHICAL WORKFLOW

LYSE + INACTIVATE PCR



FURTHER INFORMATION

For more information, please visit our website

https://www.steinbrenner-laborsysteme.de

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