D2PCR™ Buffer

for Direct-to-PCR applications

REF 2-030

100 extractions

2-8°C

IVD

CE

D2PCR™ Buffer	3x 1.75 ml

ViennaLab Diagnostics GmbH
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Instructions for use

I. INTENDED USE

Sample dilution buffer designed to be used for ViennaLab RealFast™ Assays and StripAssays® in a direct-to-PCR approach. *For human in vitro diagnostics.*

II. ASSAY PROCEDURE

Use fresh or frozen blood with EDTA anticoagulant only; avoid blood containing heparin.
Do not store blood for more than 3 days at ambient temperature or more than 1 week at 2-8°C before use. Blood which has been kept frozen for more than one year, or gone through more than three freeze-thaw cycles is unsuitable to be used in this procedure.
Bring blood samples to room temperature. Mix well by carefully inverting blood collection tubes several times. Repeat mixing each time before withdrawing an aliquot of blood.
Allow D2PCR™ Buffer to reach room temperature.

- Pipette **100 µl blood sample** into a 1.5 ml microtube with screw cap.
- Incubate for **10 min.** at **98°C**.
- Immediately centrifuge for **30 sec.** at **full speed** (min. 12,000 x g) in a microcentrifuge.
- Add **40 µl D2PCR™ Buffer** to the supernatant and carefully mix with a pipette.
  ⚠ *Do not disrupt the pellet.*

The resulting supernatant contains DNA template suitable for immediate use in PCR. For further storage, the supernatant should be transferred into a fresh tube and kept refrigerated (2-8°C; up to one week) or frozen at -20°C.

III. MATERIALS REQUIRED BUT NOT SUPPLIED

In addition to standard molecular biology laboratory equipment, the following is needed:

- Adjustable microcentrifuge capable of 12,000 x g
- Incubator (e.g. heating block, water bath) capable of 98°C (± 2°C)

IV. FAST MODE CYCLING FOR RealFast™ ASSAYS

Use of the MIC qPCR Cycler (Bio Molecular Systems) allows running certain ViennaLab RealFast™ Assays under an ultrarapid cycling program. In this case the temperature profile has to be changed according to the following settings:

Cycles	Temp	Time	Steps
1	95°C	3 min	Initial denaturation
40	95°C	**5 sec**	Denaturation
	60°C	**5 sec**	Annealing / Extension Data acquisition on FAM / HEX channels

V. LIMITATIONS

D2PCR™ must not be used with RealFast™ CNV Assays and certain StripAssays®. as specified in "Technote05_Direct-to-PCR".

REF

		Σ
2-014	GEN^{X}TRACT Blood DNA Extraction System	100 extractions
2-020	Spin Micro DNA Extraction Kit	20 extractions
2-030	D2PCR™ Buffer	100 extractions

Distributed by:

Manufacturer:

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