

# D2PCR™ Buffer

for Direct-to-PCR applications

**REF**

2-030

**IVD**



100 extractions



2-8°C



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**D2PCR™ Buffer**

3x 1.75 ml

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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 | <b>5 sec</b> | Denaturation  |
|        | 60°C | <b>5 sec</b> | Annealing / Extension<br>Data acquisition on<br>FAM / HEX<br>channels |

## V. LIMITATIONS

D2PCR™ must not be used with RealFast™ CNV Assays and certain StripAssays®. as specified in "Technote05\_Direct-to-PCR".

**REF**

|       |  |                 |
|-------|--|-----------------|
| 2-014 | GEN <sup>X</sup> TRACT Blood DNA Extraction System | 100 extractions |
| 2-020 | Spin Micro DNA Extraction Kit                      | 20 extractions  |
| 2-030 | D2PCR <sup>TM</sup> Buffer                         | 100 extractions |



Distributed by:



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