

Viral Direct PCR Kit (Catalog #: B60832)

20x Viral Direct Buffer A (Lyophilized)

20x Viral Direct Buffer B (200 uL for 100 Reactions)

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Our Viral Direct Buffer A and B are formulated to release viral DNA or RNA from viral particles and maintain the integrity of released DNA or RNA without a degradation issue. In addition, our formulated buffers allow direct PCR or RT-PCR without a need of nucleic acid purification. Our solution-based application for direct viral testing has many advantages over SiO₂ filter or magnetic bead based solid phase nucleic acid purification: fast, low cost, no loss of DNA or RNA and low variability.

Experimental Procedures:

- 1) Spin Buffer A (lyophilized) and Buffer B (solution) tubes. Transfer 200 ul Buffer B to tube A. Gently vortex to dissolve lyophilized Buffer A to make 20x Viral Direct Buffer.
- 2) Add 2 uL Viral Direct Buffer (20x) to 38 uL viral samples. Gently vortex and centrifuge.
- 3) Heat at 60°C for 10 min and 95°C for 10 min in a thermocycler.
- 4) Take 5 uL treated sample for direct RT-PCR (viral RNA) or PCR (viral DNA). No DNA or RNA purification is needed.

Note:

- 1) the sample treatment can be performed in tubes but highly recommended in 96 or 384 PCR plate.
- 2) Your PCR or real time PCR instrument can be used for the sample treatment without any additional capital investment of expensive nucleic acid processors, a large amount of plastic waste and hazardous chemicals.