



ZYMO RESEARCH

DNA/RNA Shield – DirectDetect™

DirectDetect™ reagent is a sample collection and transport medium that preserves DNA and RNA in biological samples at ambient temperature and allows for direct nucleic acid analysis by (RT)PCR.

Highlights

Rapid, direct DNA/RNA analysis of biological samples

No inhibition in downstream (RT)PCR

Reduces sample viscosity to minimize pipetting errors on automated platforms.

Specifications:

Clear colorless liquid, filter sterilized (0.2 µm).

Compatible with gamma irradiation (recommended) post dispensing into collection devices.

pH 6.0 - 8.0

Conductivity 1300 - 1500 µS/cm

Instructions for Use:

(1) Collect sample and mix (invert tube 5 times).

(a) Submerge swab in the reagent.

(b) Collect saliva into one volume reagent (1:1).

(2) Transport at ambient temperature. Samples can be stored frozen.

(3) Use directly as a template in (RT) PCR. Add up to 50% sample per reaction volume.

(a) Heat sample aliquot at 95°C for 5 minutes (recommended)

(b) Add reaction mix and proceed with (RT)PCR

To be provided by user:

Pipets and Pipette tips

Vortex mixer

PCR plates/tubes

PCR reagents (detection kits)

Real-time PCR instrument

Available formats:

R1400 bulk manufacture

R1401-1 tube 1 ml fill with swab



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No Inhibition in PCR Based Testing:

Compared to other reagents used for collecting swab samples, such as saline, DNA/RNA Shield DirectDetect does not inhibit downstream PCR reactions.

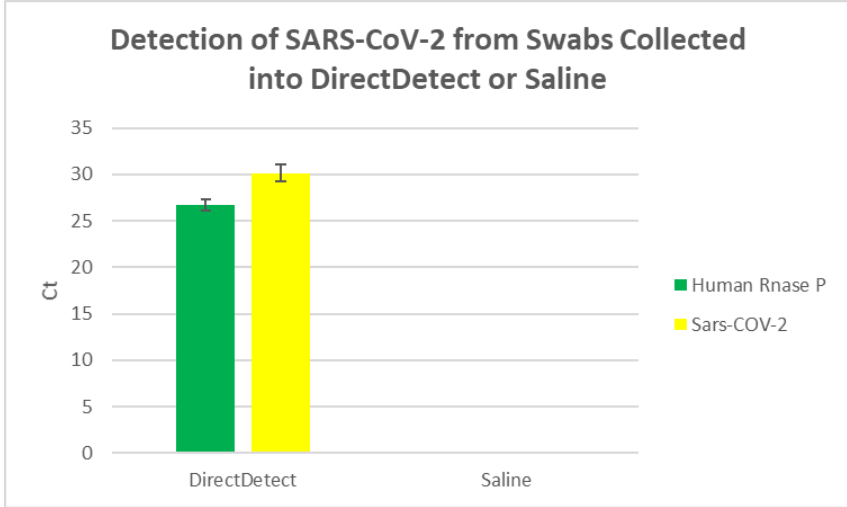


Figure: Swabs were collected into either DNA/RNA Shield DirectDetect™ reagent or 0.9% saline solution, and then spiked with heat inactivated SARS-CoV-2 at a concentration of 5,000 copy/mL. 10 µl of each sample were used as a direct input into the *Quick* SARS-CoV-2 Multiplex Kit (cat# R3013).

