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TwistDx™
Unwind DNA's possibilities

# TwistAmp™ nfo Kit

## Quick Guide

Part number: INTANFO
Revision 3

**Please see instruction and assay design manuals at twistdx.co.uk for information regarding kit components and storage, assay design, detailed use and multiplexing.**

## Set-up (single-plex)

1. Prepare reaction mix in 1.5ml tube:

| | |
|---|---|
| Primer A (10µM) | 2.1 µl |
| Primer B (10µM) | 2.1 µl |
| TwistAmp® nfo probe (10µM) | 0.6 µl |
| Primer Free Rehydration buffer | 29.5 µl |
| Template and water to | 13.2 µl |
| (Total volume | 47.5 µl) |

Vortex and spin briefly.

2. Add reaction mix to a TwistAmp® nfo reaction. Pipette to mix.

3. Add 2.5 µl of 280mM Magnesium Acetate (MgOAc) (supplied) and mix well to start reaction.

**Note:** RPA reactions start as soon as MgOAc is added.

4. Incubate at 40˚C for 20 minutes. For low template copy number, remove strip after 4 minutes, vortex and spin briefly, replace in heating device.

5. After 20 minutes, for analysis by lateral flow, dilute reaction products as specified by the lateral flow consumable of choice (see instruction manual).

**Note:** If tubes are opened after amplification there is a great risk of contamination of work surfaces with amplicon. Ensure that appropriate avoidance measures are taken.

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TwistAmp® exo probes can also be used with this kit (see instruction manual).

## Kit Positive Control Set-up (single-plex)

1. Prepare reaction mix in 1.5ml tube:

| | |
|---|---|
| Positive control primer mix | 8 µl |
| Primer Free Rehydration buffer | 29.5 µl |
| Positive control DNA template | 1 µl |
| Water | 9 µl |
| (Total volume | 47.5 µl) |

Vortex and spin briefly.

2. Add reaction mix to a TwistAmp® nfo reaction. Pipette to mix.

3. Add 2.5 µl of 280mM Magnesium Acetate (MgOAc) (supplied) and mix well to start reaction.

**Note:** RPA reactions start as soon as MgOAc is added.

4. Incubate at 39˚C for 20 minutes. For low template copy number, remove strip after 4 minutes, vortex and spin briefly, replace in heating device.

5. After 20 minutes, for analysis by lateral flow, dilute reaction product 1/50 with PBST and load 10 µl onto the sample pad of Milenia HybriDetect 1 strip.

6. Place strip in PBST running buffer.

**Note:** If tubes are opened after amplification there is a great risk of contamination of work surfaces with amplicon. Ensure that appropriate avoidance measures are taken.

TwistDX
nfo Kit QG

Size:
8.268 in x 5.827 in

PMS 185 C
Red

Black

PMS 7541 C
Gray 1 - 10%

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Date of Revision:
3.1 2019/01