genetic PCR solutions™

25 years' experience, packed in microtubes

cfhDNA MONODOSE dtec-qPCR Test

Genetic detection of

Cell-free human DNA

Edition E03

DESCRIPTION

The **cfhDNA MONODOSE dtec-qPCR** tests are individual ready-to-use tubes containing all the components needed to perform a quantitative PCR assay. GPS™ reagents contains BSA and are compatible with all qPCR devices, plate based and glass capillary.

KIT CONTENT

cfhDNA MONODOSE dtec-qPCR tests (INDIVIDUAL TUBES), contains a mixture of specific primers and labelled probe, dNTPs, BSA, polymerase and buffer at optimal concentrations and lyophilized after synthesis. 24, 48 or 96 rxn

Standard Template cfhDNA (RED CAP), $2.4 \cdot 10^7$ target dehydrated copies for positive control.

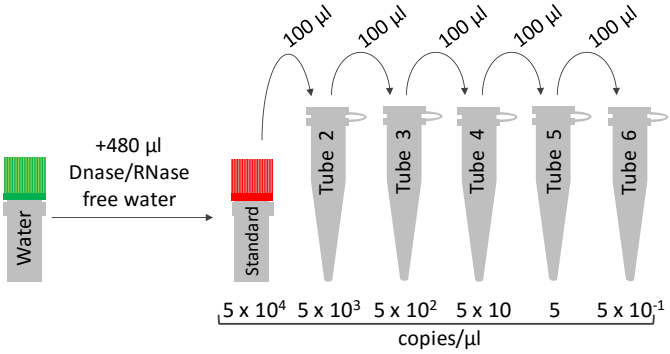
DNase/RNase free water (GREEN CAP), to dilute standard template. 500 µl

STORAGE CONDITIONS

All the components of **cfhDNA MONODOSE dtec-qPCR Tests** are stable at room temperature for transport, but should be stored at -20 ^{o}C if not immediately used. Individual tests are stable for one year under this conditions.

PREPARATION OF STANDARD CURVE DILUTION SERIES

Standard Template cfhDNA (RED CAP) contains a high number of template and exist a very significant contamination risk. To minimize the risk of contamination we recommend to open and handle in a separate laboratory environment.



1) Pulse-spin the **Standard Template cfhDNA** (RED CAP), reconstitute with 480 µl of **DNase/RNase free water** (GREEN CAP) and vortex thoroughly, label as number 1
2) Pipette 900 µl of **DNAse/RNAse free water** into five tubes and label as 2 to 6
3) Pipette 100 µl of reconstituted **Standard Template**, into tube 2
4) Vortex thoroughly and pulse-spin
5) Change pipette tip and pipette 100 µl from tube 2 into tube 3
6) Vortex thoroughly and pulse-spin
7) Repeat steps 5 and 6 with the tubes 4 to 6 to complete the dilution series
8) Use 20 µl of each dilution per well to perform the standard curve.

PROTOCOL & AMPLIFICATION REGIME

Add the desired volume of sample ranging from 5 µl up to a maximum qPCR volume of 20 µl and, when needed, complete this final volume by adding DNase/RNase free water (i.e., 7 µl sample + 13 µl water). Vortex thoroughly and pulse-spin. To determine the sample volume, please take into account the possible presence of inhibitors.

IMPORTANT: Protect the mix from prolonged exposure to light.

Cycling parameters are the same for all our MONODOSE dtec-qPCR assays.

	Step	Time	Temperature
	Activation	60 sec	95 ºC
40 Cycles	Denaturation	10 sec	95 ºC
	Annealing / Extension and data collection[1]	60 sec	60 ºC

1 Fluorogenic signal should be collected during this step by using the FAM channel

NOTICES, DISCLAIMERS, AND TRADEMARKS

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