Titan HotTaq Probe qPCR Capillary Mix

Cat. No.	Pack Size
BTS0019	100 µl (25 reactions) SAMPLE
BT11003	1 ml (250 reactions)

Storage & Shipping:

Store at -20°C, shipping at room temperature.
Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of Titan HotTaq Probe qPCR Capillary Mix.

Reagents Provided:

- **Titan HotTaq DNA polymerase**
- **5 x qPCR buffer P**
- **15 mM $MgCl_2$**
  1 x PCR solution – 3 mM $MgCl_2$
- **dNTPs**, *including dTTP to improve reaction sensitivity and efficiency*
- **BSA**

Description:

Titan HotTaq Probe qPCR Capillary Mix is optimized for real-time quantitative PCR assays. The ready-to-use mix includes Titan HotTaq DNA polymerase, ultrapure dNTPs and $MgCl_2$. Only template, primers, probe and water need to be added.

Titan HotTaq DNA polymerase is activated by a 15 min incubation step at 95°C. This prevents extension of non-specifically annealed primers and primer-dimers formed at low temperatures during qPCR setup.

Application:

- Detection and quantification of DNA and cDNA targets
- Profiling gene expression
- Microbial detection
- Viral load determination

Recommended PCR reaction mix:

Component	Volume	Final conc.
5 x Titan HotTaq Probe qPCR Mix	4 µl	1x
Primer Forward (10 pmol/µl)	0.4 -0.8 µl	200-400 nM
Primer Reverse (10 pmol/µl)	0.4 -0.8 µl	200-400 nM
Probe	1 µl	100-250 nM
DNA template	1-5 µl	1-50 ng/µl
H_2O PCR grade	up to 20 µl	
Total	**20 µl**	

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Recommended PCR cycles:

Cycle step	Temp.	Time	Cycles
Initial denaturation	**95ºC**	**15 min**	1
Denaturation	95ºC	15-20 s	40
Annealing/Elongation	60ºC	60 s	

IMPORTANT: *To activate the polymerase, include an incubation step* ***at 95ºC for 15 minutes*** *at the beginning of the qPCR cycle.*

Safety warnings and precautions:

This product is designed for research purposes and *in vitro* use only. According to common laboratory safety practice, it is recommended to wear protective clothing, gloves and safety glasses. Please refer to www.bioatlas.com for Material Safety Data Sheet of the product.

Some applications this product is used in may require a license which is not provided by the purchase of this product. Users should obtain the license if required.

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