

Titan Taq 5x PCR Mix - Data Sheet

Cat. No.	Pack Size	Conc. (MgCl ₂)
BTS0005	0.1 ml (25 reactions) SAMPLE	12.5 mM
BT10402	1 ml (250 reactions)	12.5 mM

Lot no:
Exp. Date:

Storage: -20 °C

For *in vitro* use only

Application:

- Suited for a wide range of PCR assays
- TA cloning

Description:

Titan Taq 5x PCR Mix is a premixed ready-to-use solution containing all reagents required for PCR (except template, primers and water).

Reagent Composition:

- **Titan Taq DNA polymerase**
- **5 x Reaction Buffer 1**
0.4 M Tris-HCl, 0.1 M (NH₄)₂SO₄, 0.1% w/v Tween-20
- **12.5 mM MgCl₂**
1x PCR solution – 2.5 mM MgCl₂
- **1 mM dNTPs of each**
1x PCR solution – 200 µM dATP, 200 µM dCTP, 200 µM dGTP and 200 µM dTTP

Shipping and Storage conditions:

Routine storage: -20°C

Shipping and temporary storage for up to 1 month at room temperature or storage for up to 6 months at 2-8°C has no detrimental effects on the quality of Titan Taq 5x PCR Mix.

Recommended PCR reaction mix:

Component	Volume	Final conc.
Titan Taq 5x PCR Mix	4 µl	1 x
Forward primer (10 pmol/µl)	0.2-0.6 µl	0.1-0.3 µM
Reverse primer (10 pmol/µl)	0.2-0.6 µl	0.1-0.3 µM
Template DNA	x µl	5-50 ng/µl
Add H ₂ O	Up to 20 µl	

Recommended PCR cycles:

Cycle step	Temp.	Time	Cycles
Initial denaturation	95°C	3-5 min	1
Denaturation	95°C	20-40 s	25-30
Annealing	54-66°C	30-60 s	
Elongation	72°C	40 s - 4 min	
Final elongation	72°C	5-10 min	

Recommendations:

We recommend using Titan 5x PCR Mix in any PCR application that will be visualized by agarose gel electrophoresis and ethidium bromide staining.

We do not recommend using the 5x PCR Mix for PCR reactions where detergent free buffer system is required (detergent free 5x PCR Mix available upon request).

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.