

# Atlas Taq 2x PCR Mix

Cat. No.	Pack Size
BAS0009	10 rxn (100 µl) SAMPLE
BA01501	100 rxn (1 ml)

## Storage & Shipping:

Store at -20°C, shipping at room temperature.

## Quantity:

The mixture contains 100 units of Atlas Taq DNA Polymerase. It is sufficient for 100 reactions of 20 µl or 40 reactions of 50 µl.

## Reagents Provided:

- **Atlas Taq DNA Polymerase** (0.1 U/µl) in reaction buffer, **4 mM MgCl<sub>2</sub>**, **0.4 mM of each dNTPs** (dATP, dCTP, dGTP, dTTP)
- **Water** (nuclease free) - 1 ml

## Description:

Atlas Taq 2x PCR Mix is a premixed solution containing everything needed for successful PCR reaction except specific primers and DNA template.

The mix includes high-quality recombinant Atlas Taq DNA polymerase, nucleotides and magnesium in a PCR reaction buffer.

For the reaction set-up add the PCR Mix (10 or 25 µl) to the primers, template and water for the total reaction volume of 20 or 50 µl.

## Quality data:

Activity and stability tested at 20, 30 and 40 cycles of PCR reactions at 95°C. Free of detectable, non-specific nucleases.

Several cycles of freezing/thawing are allowed.

## Recommended PCR reaction mix:

Component	Quantity
Atlas Taq 2x PCR mix	10 µl (1x)
Primer Forward	0.3 -1 µM
Primer Reverse	0.3 -1 µM
DNA template	1-100 ng/µl
H <sub>2</sub> O PCR grade	Up to 20 µl
<b>Total</b>	<b>20 µl</b>

## Recommended PCR cycles:

Cycle step	Temp.	Time	Cycles
Initial denaturation	95°C	3-5 min	1
Denaturation	95°C	30-60 s	26-35
Annealing	50-68°C	30-60 s	
Elongation	72°C	1-4 min	
Final elongation	72°C	5-10 min	1

**IMPORTANT:** Annealing temperature should be 2-6°C lower than the primer melting temperature.

**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](http://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.*