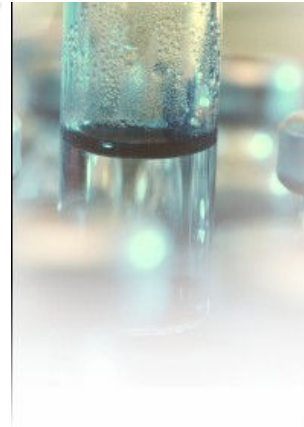


BioAtlas
Enzymes that matter

Product Catalog





Dear Friends,

Bioatlas is an advancing European biotechnology company providing high quality molecular biology products to researchers, distributors and OEM resellers.

We started Bioatlas with the intention of establishing a portfolio of molecular biology reagents, so that people would be able to find many products they need from a single source, giving our customers the opportunity to spend less time thinking about the reagents they use and more time on their research.

Our products have been developed and tested to ensure their performance in where they matter the most – your experiments. We are proud that our collaboration with our customers and partners has become long term, and these relationships are everything BioAtlas is about.

We are constantly improving our offering, both in the lab, as well as our customer service. We would be much obliged for any suggestion on how we can become a better partner for you.

We are honored to be a small, but reliable part of your everyday work and new discoveries.

Sincerely yours,

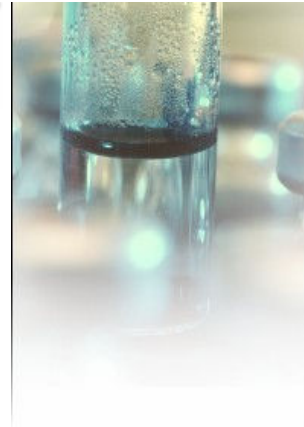
Indrek Kask
Founder, Member of the Board

Taavi Einaste
Founder, Member of the Board

Contents

PCR & qPCR	5
DNA Polymerases	6
Atlas and Titan DNA Polymerases	6
Atlas Taq DNA Polymerase	7
Atlas HotTaq DNA Polymerase	8
Atlas RedTaq DNA Polymerase	9
Atlas LongTaq DNA Polymerase	10
Atlas Pfu DNA Polymerase	11
Titan Taq DNA Polymerase	12
Titan HotTaq DNA Polymerase	13
Titan Thermo DNA Polymerase	14
Titan H Minus M-MLV Reverse Transcriptase	15
PCR Mixes	16
Atlas Taq 2x PCR Mix	16
Atlas HotTaq 2x PCR Mix	17
Atlas RedTaq 2x PCR Mix	18
Titan Taq 5x PCR Mixes	19
Titan HotTaq Power Mix	20
qPCR Mixes	21
Titan HotTaq Probe qPCR Mixes	21
Titan HotTaq EvaGreen® qPCR Mixes	22
Titan HotTaq EvaGreen® qPCR Capillary Mix	23
PCR Buffers and Reagents	24
Atlas PCR Water	24
Atlas 25 mM MgCl ₂	24
Atlas 10x Taq Buffer	24
Atlas 10x Taq Buffer with (NH ₄) ₂ SO ₄	25
Nucleotides	25
Atlas Nucleotide Mixes	25
Atlas dNTP Set (100 mM each)	25

ELECTROPHORESIS	26
DNA Ladders	27
Atlas Star 100 bp DNA Ladders	27
Atlas Star Mid-Range DNA Ladders	27
Atlas Star 1 Kb DNA Ladder EXPRESS	27
Reagents for DNA Electrophoresis	28
Atlas Agarose Ultra Pure	28
Atlas Ethidium Bromide Solution	28
AtlasSight DNA Stain	29
Atlas Load 6x Loading Dye Bromophenol Blue	30
Atlas Load 6x Loading Dye Orange G	30
BUFFERS	31
Ready Mixed Powders	32
Atlas 10x PBS - Ready Mixed Powder	32
Atlas 20x SSC - Ready Mixed Powder	32
Atlas TBE Buffers - Ready Mixed Powders	32
Atlas 10x Tris-Glycine Buffer - Ready Mixed Powder	33
Atlas 10x Tris-Glycine-SDS - Ready Mixed Powder	33
Ready Mixed Buffer Solutions	33
Atlas 10x TAE Buffer Solution	33
Atlas 10x PBS Buffer Solution	34
Atlas 20x SSC Buffer Solution	34
Atlas TBE Buffer Solutions	34
Atlas 10x Tris-Glycine Buffer Solution	35
Atlas 10x Tris-Glycine-SDS Buffer Solution	35
Order Form	36



PCR



PCR & qPCR	
DNA Polymerases	6
Atlas and Titan DNA Polymerases	6
Atlas Taq DNA Polymerase	7
Atlas HotTaq DNA Polymerase	8
Atlas RedTaq DNA Polymerase	9
Atlas LongTaq DNA Polymerase	10
Atlas Pfu DNA Polymerase	11
Titan Taq DNA Polymerase	12
Titan HotTaq DNA Polymerase	13
Titan Thermo DNA Polymerase	14
Titan H Minus M-MLV Reverse Transcriptase	15
PCR Mixes	16
Atlas Taq 2x PCR Mix	16
Atlas HotTaq 2x PCR Mix	17
Atlas RedTaq 2x PCR Mix	18
Titan Taq 5x PCR Mixes	19
Titan HotTaq Power Mix	20
qPCR Mixes	21
Titan HotTaq Probe qPCR Mixes	21
Titan HotTaq EvaGreen® qPCR Mixes	22
Titan HotTaq EvaGreen® qPCR Capillary Mix	23
PCR Buffers and Reagents	24
Atlas PCR Water	24
Atlas 25 mM MgCl ₂	24
Atlas 10x Taq Buffer	24
Atlas 10x Taq Buffer with (NH ₄) ₂ SO ₄	25
Nucleotides	25
Atlas Nucleotide Mixes	25
Atlas dNTP Set (100 mM each)	25

Atlas and Titan DNA Polymerases

Polymerase	Cat #	Template	3' > 5' exonuclease	5' > 3' exonuclease	Applications
Atlas Taq DNA Polymerase	BA00103 BA00104 BA00105	DNA	-	+	- Routine PCR - Automated sequencing reactions
Atlas HotTaq DNA Polymerase	BA00203 BA00204 BA00205	DNA	-	+	- Hot Start PCR - Effective incorporation of modified nucleotides
Atlas RedTaq DNA Polymerase	BA00303 BA00304 BA00305	DNA	-	+	- Routine PCR - Easy visualization of enzyme addition. - Direct loading of samples following amplification
Atlas LongTaq DNA Polymerase	BA00403 BA00404 BA00405	DNA	+	+	- Accurate PCR - Long range PCR (> 6 kb)
Atlas Pfu DNA Polymerase	BA00503 BA00504 BA00505	DNA	+	+	- Accurate PCR - TA cloning - Highly thermostable (remains active after 90 minutes of incubation at 95°C)
Titan Taq DNA Polymerase	BT10101 BT10102 BT10103	DNA	-	+	- Suited for a wide range of PCR assays - Primer extension - TA cloning
Titan HotTaq DNA Polymerase	BT10201 BT10202	DNA	-	+	- Hot Start PCR - Primer extension - TA cloning
Titan Thermo DNA Polymerase	BT10302	DNA	-	+	- Primer extension - MALDI-TOF mass spectrometry - Mass-array
Titan H Minus M-MLV Reverse Transcriptase	BT10901	DNA RNA	-	+	- cDNA synthesis - RNA analysis by primer extension - DNA labeling

Primary difference between polymerases in Atlas and Titan product-lines is the strain of *E. coli* used for producing the enzymes. Enzymes are produced from recombinantly modified strains, including point mutations in specific positions. The specific point mutations incorporated into the *E. coli* strain of Titan series polymerases prolong the shelf-life (2 years) and stability at room temperature of the polymerase significantly.

Atlas Taq DNA Polymerase

Applications:

- Polymerase chain reaction (PCR).
- Primer extension.
- DNA sequencing.

Description: Atlas Taq DNA Polymerase is highly thermostable DNA polymerase (Fig.1). The enzyme catalyzes 5' to 3' synthesis of DNA, but lacks 3' to 5' exonuclease activity.

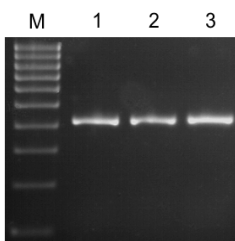


Figure 1. Amplification of 420 bp target DNA using Atlas Taq DNA Polymerase.
M – Atlas Star 100 bp DNA Ladder
1-3 – Atlas Taq DNA Polymerase

Source: Recombinant *E. coli* strain with cloned gene encoding *Thermus aquaticus* DNA polymerase.

Unit definition: One unit of the enzyme catalyzes the incorporation of 10 nanomoles of deoxyribonucleotides into a polynucleotide fraction in 30 min at 70°C.

Quality control: Free of detectable, non-specific nucleases.

Storage & Dilution buffer: 20 mM Tris-HCl (pH 8.0), 1 mM DTT, 0.1 mM EDTA, 100 mM KCl, 0.5% Nonidet P40, 0.5% Tween 20 and 50% glycerol.

Concentration: 5 units/ μ l

ORDERING INFORMATION

Product	Quantity	Cat. #
Atlas Taq DNA Polymerase	500 units	BA00103
Atlas Taq DNA Polymerase	1000 units	BA00104
Atlas Taq DNA Polymerase	2500 units	BA00105

Supplied with:

Atlas 10x Taq Buffer: 100 mM Tris-HCl (pH 8.8 at 25°C), 500 mM KCl, 0.8% Nonident P40.

Atlas 10x Taq Buffer with (NH₄)₂SO₄: 750 mM Tris-HCl (pH 8.8 at 25°C), 200 mM (NH₄)₂SO₄, 0.1% Tween 20.

Atlas 25 mM MgCl₂

Shipping & Storage conditions: Store at -20°C. Guaranteed stable for 1 year when properly stored.

Comments: This product is supplied for research use only.

Related products:

Product	Quantity	Cat. #
Atlas Taq 2x PCR Mix	100 rxn	BA01501
Atlas 10x Taq Buffer	1.8 mL	BA00151
Atlas 10x Taq Buffer with (NH ₄) ₂ SO ₄	1.8 mL	BA00152
Atlas 25 mM MgCl ₂	1.8 mL	BA00153
Atlas 25 mM MgCl ₂	5 x 1.8 mL	BA00154
Atlas PCR Water	10 x 1.8 mL	BA01201
Atlas PCR Water	25 x 1.8 mL	BA01202
Atlas PCR Water	5 x 10 mL	BA01203
Atlas 10mM Nucleotide Mix	1 mL	BH40201
Atlas 2 mM Nucleotide Mix	1 mL	BH40202

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Atlas HotTaq DNA Polymerase

Applications:

- Polymerase chain reaction setup at room temperature.
- Effective incorporation of modified nucleotides.

Description: Atlas HotTaq DNA Polymerase catalyzes 5' to 3' synthesis of DNA, but lacks 3' to 5' exonuclease activity. Prior the first PCR step the Atlas HotTaq DNA Polymerase should be activated by 15 minute incubation at 95 - 97°C.

Source: Recombinant *E. coli* strain with cloned gene encoding *Thermus aquaticus* DNA polymerase.

Unit definition: One unit of the enzyme catalyzes the incorporation of 10 nanomoles of deoxyribonucleotides into a polynucleotide fraction in 30 min at 70°C.

Quality control: Free of detectable, non-specific nucleases. Activity and stability tested at 20, 30 and 40 cycles of PCR reaction at 95°C. Tested for the absence of human DNA contamination by PCR with Alu-specific primers.

Storage & Dilution buffer: 20 mM Tris-HCl (pH 8.0), 1 mM DTT, 0.1 mM EDTA, 100 mM KCl, 0.5% Nonidet P40, 0.5% Tween 20 and 50% glycerol.

Concentration: 10 units/ μ l

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas HotTaq DNA Polymerase	500 units	BA00203
Atlas HotTaq DNA Polymerase	1000 units	BA00204
Atlas HotTaq DNA Polymerase	2500 units	BA00205

Supplied with:

Atlas 10x Taq Buffer: 100 mM Tris-HCl (pH 8.8 at 25°C), 500 mM KCl, 0.8% Nonident P40.

Atlas 10x Taq Buffer with (NH₄)₂SO₄: 750 mM Tris-HCl (pH 8.8 at 25°C), 200 mM (NH₄)₂SO₄, 0.1% Tween 20.

Atlas 25 mM MgCl₂

Shipping & Storage conditions: Store at -20°C. Guaranteed stable for 1 year when properly stored.

Comments: This product is supplied for research use only.

Related products:

Product	Quantity	Cat. #
Atlas HotTaq 2x PCR Mix	100 rxn	BA01503
Atlas 10x Taq Buffer	1.8 mL	BA00151
Atlas 10x Taq Buffer with (NH ₄) ₂ SO ₄	1.8 mL	BA00152
Atlas 25 mM MgCl ₂	1.8 mL	BA00153
Atlas 25 mM MgCl ₂	5 x 1.8 mL	BA00154
Atlas PCR Water	10 x 1.8 mL	BA01201
Atlas PCR Water	25 x 1.8 mL	BA01202
Atlas PCR Water	5 x 10 mL	BA01203
Atlas 10 mM Nucleotide Mix	1 mL	BH40201
Atlas 2 mM Nucleotide Mix	1 mL	BH40202

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Atlas RedTaq DNA Polymerase

Applications:

- Suited for a wide range of PCR assays.
- Easy visualization of enzyme addition.
- Visualization of complete reaction mixing.
- Direct loading of samples following amplification.

Description: Atlas RedTaq DNA Polymerase catalyzes 5' to 3' synthesis of DNA, but lacks 3' to 5' exonuclease activity (Fig.1). The enzyme has proven to have high amplification yield, be stable at high temperature. Added inert dye will not have any interference to the reaction. Visual confirmation that the enzyme has been added and that proper component mixing of the reaction has occurred. Samples can be loaded directly onto an agarose gel for electrophoresis with no loading dye addition.

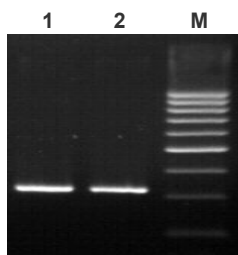


Figure 1. Amplification of 330 bp target DNA using Atlas RedTaq DNA Polymerase.

1- 2 – Atlas RedTaq DNA Polymerase
M – Atlas Star 100 bp DNA Ladder

Source: Recombinant *E. coli* strain with cloned gene encoding *Thermus aquaticus* DNA polymerase.

Unit definition: One unit of the enzyme catalyzes the incorporation of 10 nanomoles of deoxyribonucleotides into a polynucleotide fraction in 30 min at 70°C.

Quality control: Free of detectable, non-specific nucleases.

Storage & Dilution buffer: 20 mM Tris-HCl (pH 8.0), 1 mM DTT, 0.1 mM EDTA, 100 mM KCl, 0.5% Non-ident P40, 0.5% Tween 20 and 50% glycerol.

Concentration: 1 unit/ μ l

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas RedTaq DNA Polymerase	500 units	BA00303
Atlas RedTaq DNA Polymerase	1000 units	BA00304
Atlas RedTaq DNA Polymerase	2500 units	BA00305

Supplied with:

Atlas 10x Taq Buffer: 100 mM Tris-HCl (pH 8.8 at 25°C), 500 mM KCl, 0.8% Nonident P40.

Atlas 10x Taq Buffer with (NH₄)₂SO₄: 750 mM Tris-HCl (pH 8.8 at 25°C), 200 mM (NH₄)₂SO₄, 0.1% Tween 20.

Atlas 25 mM MgCl₂

Shipping & Storage conditions: Store at -20°C. Guaranteed stable for 1 year when properly stored.

Comments: This product is supplied for research use only.

Related products:

Product	Quantity	Cat. #
Atlas RedTaq 2x PCR Mix	100 rxn	BA01503
Atlas 10x Taq Buffer	1.8 mL	BA00151
Atlas 10x Taq Buffer with (NH ₄) ₂ SO ₄	1.8 mL	BA00152
Atlas 25 mM MgCl ₂	1.8 mL	BA00153
Atlas 25 mM MgCl ₂	5 x 1.8 mL	BA00154
Atlas PCR Water	10 x 1.8 mL	BA01201
Atlas PCR Water	25 x 1.8 mL	BA01202
Atlas PCR Water	5 x 10 mL	BA01203
Atlas 10 mM Nucleotide Mix	1 mL	BH40201
Atlas 2 mM Nucleotide Mix	1 mL	BH40202

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Atlas LongTaq DNA Polymerase

Applications:

- Standard and long PCR.
- PCR with difficult templates.

Description: Atlas LongTaq DNA Polymerase is the mixture of two DNA polymerases designed for long PCR having the 3' to 5' proofreading exonuclease activity (Fig.1). The enzyme allows to amplify genomic DNA fragments up to 20 kb and viral DNA fragments up to 40 kb.

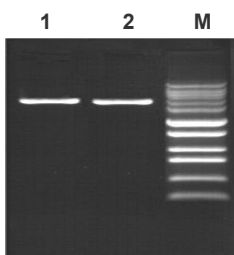


Figure 1. Amplification of 5,3 Kb target DNA using Atlas LongTaq DNA Polymerase.

1- 2 – Atlas LongTaq DNA Polymerase
M – Atlas Star 1 Kb DNA Ladder Plus

Source: Recombinant *E. coli* strain with cloned gene encoding *Thermus aquaticus* DNA polymerase.

Unit definition: One unit of the enzyme catalyzes the incorporation of 10 nanomoles of deoxyribonucleotides into a polynucleotide fraction in 30 min at 70°C.

Quality control: Free of detectable, non-specific nucleases.

Storage & Dilution buffer: 20 mM Tris-HCl (pH 8.0), 1 mM DTT, 0.1 mM EDTA, 100 mM KCl, 0.5% Nonidet P40, 0.5% Tween 20 and 50% glycerol.

Concentration: 5 unit/ μ l

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas LongTaq DNA Polymerase	500 units	BA00403
Atlas LongTaq DNA Polymerase	1000 units	BA00404
Atlas LongTaq DNA Polymerase	2500 units	BA00405

Supplied with:

Atlas 10x Taq Buffer: 100 mM Tris-HCl (pH 8.8 at 25°C), 500 mM KCl, 0.8% Nonident P40.

Atlas 10x Taq Buffer with (NH₄)₂SO₄: 750 mM Tris-HCl (pH 8.8 at 25°C), 200 mM (NH₄)₂SO₄, 0.1% Tween 20.

Atlas 25 mM MgCl₂

Shipping & Storage conditions: Store at -20°C. Guaranteed stable for 1 year when properly stored.

Comments: This product is supplied for research use only.

Related products:

Product	Quantity	Cat. #
Atlas 10x Taq Buffer	1.8 mL	BA00151
Atlas 10x Taq Buffer with (NH ₄) ₂ SO ₄	1.8 mL	BA00152
Atlas 25 mM MgCl ₂	1.8 mL	BA00153
Atlas 25 mM MgCl ₂	5 x 1.8 mL	BA00154
Atlas PCR Water	10 x 1.8 mL	BA01201
Atlas PCR Water	25 x 1.8 mL	BA01202
Atlas PCR Water	5 x 10 mL	BA01203
Atlas 10 mM Nucleotide Mix	1 mL	BH40201
Atlas 2 mM Nucleotide Mix	1 mL	BH40202

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Atlas Pfu DNA Polymerase

Applications:

- Close to ten times more accurate than normal DNA polymerase.
- Produces blunt-ended amplification products to be used for cloning.
- Remains active even after incubating 90 minutes at 95°C.

Description: In addition to 5' to 3' DNA polymerase activity, Atlas Pfu DNA Polymerase also possesses 3' to 5' exonuclease (proofreading) activity. Atlas Pfu DNA Polymerase exhibits the lowest error rate of any thermostable DNA polymerase studied, is even up to ten fold more accurate than normal Taq DNA polymerase. Consequently, Atlas Pfu DNA Polymerase is useful for polymerization reactions requiring high-fidelity synthesis.

Source: Recombinant *E. coli* strain with cloned gene encoding *Pyrococcus furiosus* DNA polymerase.

Unit definition: One unit of the enzyme catalyzes the incorporation of 10 nanomoles of deoxyribonucleotides into a polynucleotide fraction in 30 min at 70°C.

Quality control: Free of detectable, non-specific nucleases.

Storage & Dilution buffer: 20 mM Tris-HCl (pH 8.0), 1 mM DTT, 0.1 mM EDTA, 100 mM KCl, 0.5% Nonidet P40, 0.5% Tween 20 and 50% glycerol.

Concentration: 5 units/ μ l

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas Pfu DNA Polymerase	500 units	BA00503
Atlas Pfu DNA Polymerase	1000 units	BA00504
Atlas Pfu DNA Polymerase	2500 units	BA00505

Supplied with:

Atlas 10x Pfu Buffer: 100 mM Tris-HCl (pH 8.8 at 25°C), 100 mM KCl, 100 mM (NH₄)₂SO₄, 1% Triton X-100, 1 mg/ml BSA

Atlas 10x Pfu Buffer with MgSO₄: 200 mM Tris-HCl (pH 8.8 at 25°C), 100 mM KCl, 100 mM (NH₄)₂SO₄, 1% Triton X-100, 1 mg/ml BSA, 25 mM MgSO₄

Atlas 25 mM MgSO₄

Shipping & Storage conditions: Store at -20°C. Guaranteed stable for 1 year when properly stored.

Comments: This product is supplied for research use only.

Related products:

Product	Quantity	Cat. #
Atlas PCR Water	10 x 1.8 mL	BA01201
Atlas PCR Water	25 x 1.8 mL	BA01202
Atlas PCR Water	5 x 10 mL	BA01203
Atlas 10 mM Nucleotide Mix	1 mL	BH40201
Atlas 2 mM Nucleotide Mix	1 mL	BH40202

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Titan Taq DNA Polymerase

Applications:

- Suited for a wide range of PCR assays.
- Primer extension.
- TA cloning.

Description: Titan Taq DNA Polymerase is highly processive, thermostable DNA polymerase (Fig.1). The enzyme has 5' to 3' polymerisation-dependent exonuclease replacement activity but lacks 3' to 5' exonuclease activity. The enzyme has "extendase activity" allowing TA cloning.

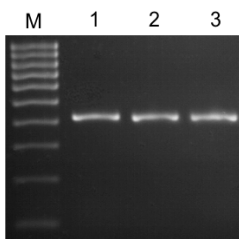


Figure 1. Amplification of 420 bp target DNA using Titan Taq DNA Polymerase.
M – Atlas Star 100 bp DNA Ladder
1- 3 – Titan Taq DNA Polymerase

Source: Purified from an *E. coli* strain carrying an overproducing plasmid containing a modified gene of *Thermus aquaticus* DNA Polymerase.

Unit definition: One unit is defined as the amount of enzyme required to catalyze the incorporation of 10 nmol of dNTP into an acid-insoluble form in 30 min at 74°C.

Quality control: The enzyme is free of nicking and priming activities, exonucleases and unspecific endonucleases. SDS/PAGE - 95 kD band, >98% pure. Activity and stability tested via thermocycling. The error rate per nucleotide per cycle is $\sim 2.5 \times 10^{-5}$; the accuracy is $\sim 4 \times 10^4$. Estimated half life at 95°C is 1.5 hours.

Storage & Dilution buffer: 50% glycerol (v/v), 20 mM Tris-HCl pH 8.7 at 25°C, 100 mM KCl, 0.1 mM EDTA and stabilizers.

Concentration: 5 units/ μ l

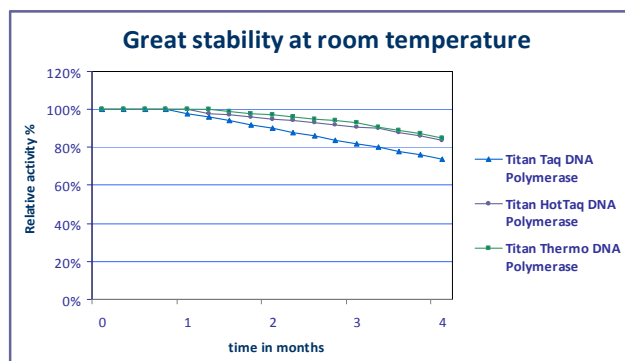
ORDERING INFORMATION		
Product	Quantity	Cat. #
Titan Taq DNA Polymerase	500 units	BT10101
Titan Taq DNA Polymerase	1000 units	BT10102
Titan Taq DNA Polymerase	2000 units	BT10103

Supplied with:

10x Reaction Buffer (Mg^{2+} free): 800 mM Tris-HCl (pH 9.4 at 25°C), 200 mM $(NH_4)_2SO_4$, 0.2% w/v Tween-20.

25 mM $MgCl_2$

Shipping & Storage conditions: Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of this reagent. However, routine storage at -20°C is strongly recommended.



Comments: This product is supplied for research use only.

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Titan HotTaq DNA Polymerase

Applications:

- Hot Start PCR.
- Primer extension.
- TA cloning.

Description: Titan HotTaq DNA Polymerase (Fig. 1) is a modified Titan Taq DNA Polymerase. At ambient temperatures it is inactive, having no polymerase activity. Titan HotTaq DNA Polymerase is activated by a 15 minute incubation at 95-97°C, preventing the extension of non-specifically annealed primers and primer-dimers formed at low temperatures during PCR setup. The enzyme has 5' to 3' polymerisation-dependent exonuclease replacement activity but lacks 3' to 5' exonuclease activity. The enzyme has "extendase activity" allowing TA cloning.

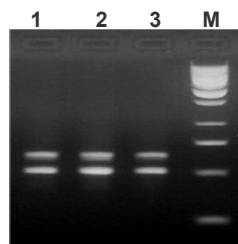


Figure 1. Amplification of ~500bp and ~600bp target DNA fragments using Titan HotTaq DNA Polymerase.

1- 3 – Titan HotTaq DNA Polymerase
M – Atlas Star 1 Kb DNA Ladder

Source: Purified from an *E. coli* strain carrying an overproducing plasmid containing a modified gene of *Thermus aquaticus* DNA Polymerase.

Unit definition: One unit is defined as the amount of enzyme required to catalyze the incorporation of 10 nmol of dNTP into an acid-insoluble form in 30 min at 74°C.

Quality control: The enzyme is free of nicking and priming activities, exonucleases and unspecific endonucleases. SDS/PAGE - 95 kD band, >98% pure. Activity and stability tested via thermocycling. The error rate per nucleotide per cycle is $\sim 2.5 \times 10^{-5}$; the accuracy is $\sim 4 \times 10^4$. Estimated half life at 95°C is 1.5 hours.

Storage & Dilution buffer: 50% glycerol (v/v), 20 mM Tris-HCl pH 8.7 at 25°C, 100 mM KCl, 0.1 mM EDTA and stabilizers.

Concentration: 5 units/ μ l

ORDERING INFORMATION

Product	Quantity	Cat. #
Titan HotTaq DNA Polymerase	500 units	BT10201
Titan HotTaq DNA Polymerase	1000 units	BT10202

Supplied with:

10x Reaction Buffer 1 (Mg^{2+} , detergent free), Tris-HCl and $(NH_4)_2SO_4$

10x Reaction Buffer 2 (Mg^{2+} free) Tris-HCl, $(NH_4)_2SO_4$ and detergent

25 mM $MgCl_2$

10x Enhancer

Additive that facilitates amplification of difficult templates (e.g. GC-rich DNA templates). This solution should be used at a defined working concentration (1x, 2x or 3x solution).

Enhancer is NOT a reaction buffer and should be used ONLY IF non-specific amplifications occur.

Shipping & Storage conditions: Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of this reagent. However, routine storage at -20°C is strongly recommended.

Comments: This product is supplied for research use only.

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Titan Thermo DNA Polymerase

Applications:

- Primer extension.
- MALDI-TOF mass spectrometry.
- Mass-array.

Description: Titan Thermo DNA Polymerase is a highly processive thermostable DNA polymerase suited for MALDI-TOF mass spectrometry and other primer extension platforms. The enzyme has 5' to 3' polymerisation-dependent exonuclease replacement activity ONLY and enhanced efficiency for incorporating unconventional nucleotides (labeled ddNTPs & acyclo nucleotides).

Source: Purified from an *E. coli* strain carrying an overproducing plasmid containing a modified gene of *Thermus aquaticus* DNA Polymerase.

Unit definition: One unit is defined as the amount of enzyme required to catalyze the incorporation of 10 nmol of dNTP into an acid-insoluble form in 30 min at 74°C.

Quality control: Titan Thermo DNA Polymerase is free of nicking and priming activities, exonucleases and unspecific endonucleases. Activity and stability tested via thermocycling. Estimated half life at 95°C: >60 minutes. Error rate per nucleotide per cycle: $\sim 8.0 \times 10^{-5}$.

Storage & Dilution buffer: 50% glycerol (v/v), 20 mM Tris-HCl pH 8.7 at 25°C, 100 mM KCl, 0.1 mM EDTA and stabilizers.

Concentration: 5 units/ μ l

ORDERING INFORMATION		
Product	Quantity	Cat. #
Titan Thermo DNA Polymerase	2000 units	BT10302

Supplied with:

10x Reaction Buffer Thermo: 500 mM Tris-HCl pH 9.5
100 mM MgCl₂

In some applications 0.5x Buffer final concentration is recommended.
0.5x Buffer final concentration is 25 mM Tris-HCl and 5 mM MgCl₂.

Shipping & Storage conditions: Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of this reagent. However, routine storage at -20°C is strongly recommended.

Comments: This product is supplied for research use only.

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Titan H Minus M-MLV Reverse Transcriptase

Applications:

- cDNA synthesis.
- RNA analysis by primer extension.
- DNA labeling.

Description: The Titan H Minus M-MLV Reverse Transcriptase is a genetically modified M-MLV RT which exhibits RNA or DNA dependent DNA polymerase, but lacks ribonuclease H activity. This enzyme can synthesize a complementary DNA strand initiating from a primer using RNA or DNA templates. Removal of the RNase H activity results in an increase of full-length cDNA products. The enzyme has RNA polymerization-dependent and DNA polymerization-dependent activity but lacks ribonuclease H activity.

Unit definition: One unit is defined as the amount of enzyme required to catalyze the incorporation of 1 nmol of dTTP into an acid-insoluble form in 10 minutes at 37°C.

Quality control: Free of endo- and exodeoxyribonucleases, phosphatases and ribonuclease. Activity and stability tested in first strand cDNA synthesis.

Storage & Dilution buffer: 50% glycerol (v/v), 50 mM Tris-HCl pH 8.0 at 25°C, 100 mM NaCl, 5 mM DTT, 1 mM EDTA, 0.1% NP-40.

Concentration: 200 units/μl

ORDERING INFORMATION		
Product	Quantity	Cat. #
Titan H Minus M-MLV Reverse Transcriptase	10000 units	BT10901

Supplied with:

5 x RT Reaction Buffer 1 (with MgCl₂ and DTT) *0.25 M Tris-HCl, 0.5 M KCl, 30 mM MgCl₂, 25 mM DTT*

5 x RT Reaction Buffer 2 (Mg²⁺ and DTT free) *0.25 M Tris-HCl, 0.5 M KCl*

25 mM MgCl₂

20 mM MnCl₂

100 mM DTT

Shipping & Storage conditions: Store at -20°C.

Shipping at room temperature has no detrimental effects on the quality of this reagent.

Comments: This product is supplied for research use only.

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You can find the order form on the last page of this catalogue, or on our website www.bioatlas.com.

Atlas Taq 2x PCR Mix

Applications:

- Ready-to-use mix reduces experimental variability.
- Reduced pipetting steps, thereby less time-consuming set-up of PCR.

Description: Atlas Taq 2x PCR Mix is a prepared 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 in a specifically optimized buffer formulation and MgCl₂ with final concentration of 2 mM. For reaction set-up add the PCR Mix (25 µl) to the primers, template and water (is provided in the set; total volume of 50 µl).

Quality control: Free of detectable, non-specific nucleases.

Storage conditions: Store at -20°C. Guaranteed stable for 1 year when properly stored.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas Taq 2x PCR Mix	100 reactions	BA01501

Comments: This product is supplied for research use only.

Related products:

Product	Quantity	Cat. #
Atlas Taq DNA Polymerase	500 U	BA00103
Atlas Taq DNA Polymerase	1000 U	BA00104
Atlas Taq DNA Polymerase	2500 U	BA00105
Atlas 10x Taq Buffer	1.8 mL	BA00151
Atlas 10x Taq Buffer with (NH ₄) ₂ SO ₄	1.8 mL	BA00152
Atlas 25 mM MgCl ₂	1.8 mL	BA00153
Atlas 25 mM MgCl ₂	5 x 1.8 mL	BA00154
Atlas PCR Water	10 x 1.8 mL	BA01201
Atlas PCR Water	25 x 1.8 mL	BA01202
Atlas PCR Water	5 x 10 mL	BA01203
Atlas 10 mM Nucleotide Mix	1 mL	BH40201
Atlas 2 mM Nucleotide Mix	1 mL	BH40202

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Atlas HotTaq 2x PCR Mix

Applications:

- Ready-to-use mix reduces experimental variability.
- Reduced pipetting steps, thereby less time-consuming set-up of PCR.
- Set-up at room temperature.

Description: Atlas HotTaq 2x PCR Mix is a prepared solution containing everything needed for successful PCR reaction except specific primers and DNA template. The mix includes high-quality recombinant Atlas HotTaq DNA polymerase, nucleotides in a specifically optimized buffer formulation and MgCl₂ with final concentration of 2 mM. For reaction set-up add the PCR Mix (25 µl) to the primers, template and water (is provided in the set; total volume of 50 µl).

Quality control: Free of detectable, non-specific nucleases.

Storage conditions: Store at -20°C. Guaranteed stable for 1 year when properly stored.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas HotTaq 2x PCR Mix	100 reactions	BA01503

Comments: This product is supplied for research use only.

Related products:

Product	Quantity	Cat. #
Atlas HotTaq DNA Polymerase	500 U	BA00203
Atlas HotTaq DNA Polymerase	1000 U	BA00204
Atlas HotTaq DNA Polymerase	2500 U	BA00205
Atlas 10x Taq Buffer	1.8 mL	BA00151
Atlas 10x Taq Buffer with (NH ₄) ₂ SO ₄	1.8 mL	BA00152
Atlas 25 mM MgCl ₂	1.8 mL	BA00153
Atlas 25 mM MgCl ₂	5 x 1.8 mL	BA00154
Atlas PCR Water	10 x 1.8 mL	BA01201
Atlas PCR Water	25 x 1.8 mL	BA01202
Atlas PCR Water	5 x 10 mL	BA01203
Atlas 10 mM Nucleotide Mix	1 mL	BH40201
Atlas 2 mM Nucleotide Mix	1 mL	BH40202

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Atlas RedTaq 2x PCR Mix

Applications:

- Ready-to-use mix reduces experimental variability.
- Reduced pipetting steps, thereby less time-consuming set-up of PCR.
- Set-up at room temperature.
- Visualization of complete reaction mixing.
- Direct loading of samples following amplification.

Description: Atlas RedTaq 2x PCR Mix is a prepared solution containing everything needed for successful PCR reaction except specific primers and DNA template. The mix includes high-quality recombinant Atlas HotTaq DNA Polymerase, nucleotides in a specifically optimized buffer formulation and $MgCl_2$ with final concentration of 2 mM. Added inert dye will provide visual confirmation that the enzyme has been added and that proper component mixing of the reaction has occurred. Samples can be loaded directly onto an agarose gel for electrophoresis with no loading dye addition.

For reaction set-up add the PCR Mix (25 μ l) to the primers, template and water (is provided in the set; total volume of 50 μ l).

Quality control: Free of detectable, non-specific nucleases.

Storage conditions: Store at $-20^{\circ}C$. Guaranteed stable for 1 year when properly stored.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas RedTaq 2x PCR Mix	100 reactions	BA01507

Comments: This product is supplied for research use only.

Related products:

Product	Quantity	Cat. #
Atlas RedTaq DNA Polymerase	500 U	BA00303
Atlas RedTaq DNA Polymerase	1000 U	BA00304
Atlas RedTaq DNA Polymerase	2500 U	BA00305
Atlas HotTaq DNA Polymerase	500 U	BA00203
Atlas HotTaq DNA Polymerase	1000 U	BA00204
Atlas HotTaq DNA Polymerase	2500 U	BA00205
Atlas 10x Taq Buffer	1.8 mL	BA00151
Atlas 10x Taq Buffer with $(NH_4)_2SO_4$	1.8 mL	BA00152
Atlas 25 mM $MgCl_2$	1.8 mL	BA00153
Atlas 25 mM $MgCl_2$	5 x 1.8 mL	BA00154
Atlas PCR Water	10 x 1.8 mL	BA01201
Atlas PCR Water	25 x 1.8 mL	BA01202
Atlas PCR Water	5 x 10 mL	BA01203
Atlas 10 mM Nucleotide Mix	1 mL	BH40201
Atlas 2 mM Nucleotide Mix	1 mL	BH40202

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Titan Taq 5x PCR Mixes

Applications:

- 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). Titan Taq 5x PCR Mix is also available as Ready-to-load solution that consists an additional compound needed for direct loading onto agarose gel and two tracking dyes (blue and yellow) which allow to monitor progress during electrophoresis.

Composition:

Titan Taq DNA polymerase
5x Reaction Buffer 1
12.5 mM MgCl₂
1 mM dNTPs of each

Additional components for Ready-to-load solution:

Blue dye
Yellow dye
Compound that increases sample density for direct loading

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.

Titan Taq 5x PCR Mix is also available in 8 tube strips.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Titan Taq 5x PCR Mix 12.5 mM	1 mL (250 reactions)	BT10402
Titan Taq 5x PCR Mix Ready-to-Load 12.5 mM	1 mL (250 reactions)	BT10502

Comments: This product is supplied for research use only.

Related products:

Product	Quantity	Cat. #
Titan Taq DNA Polymerase	500 U	BT10101
Titan Taq DNA Polymerase	1000 U	BT10102
Titan Taq DNA Polymerase	2000 U	BT10103
Titan HotTaq DNA Polymerase	500 U	BT10201
Titan HotTaq DNA Polymerase	1000U	BT10202
Titan HotTaq Power Mix	1 mL (250 rxn)	BT10801

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Titan HotTaq Power Mix

Applications:

- Hot Start PCR
- Proofreading

Description: Titan HotTaq Power Mix is a premixed ready to load solution containing: all reagents required for PCR (except template, primers and water), compound needed for direct loading onto agarose gel and two tracking dyes to follow the electrophoresis.

Titan HotTaq Power Mix contains two enzymes – Titan HotTaq DNA polymerase and a proofreading polymerase. These enzymes together have both the 5' to 3' exonuclease activity as well as the 3' to 5' proofreading activity.

Titan HotTaq Power Mix is recommended to use in any PCR application that will be visualized by agarose gel electrophoresis and AtlasSight DNA Stain or Ethidium bromide staining.

Composition:

Titan HotTaq DNA Polymerase

Proofreading enzyme

5x Reaction Buffer

12.5 mM MgCl₂ (1x PCR solution – 2.5 mM MgCl₂)

2 mM dNTPs of each (1x PCR solution – 200 μM dATP, 200 μM dCTP, 200 μM dGTP and 200 μM dTTP)

BSA

Blue dye (Migration equivalent to 3.5-4.5 kb DNA fragment)

Yellow dye (Migration rate in excess of primers in 1% agarose gel: <35-45 bp)

Compound that increases sample density for direct loading

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 HotTaq 10x PCR Mix.

ORDERING INFORMATION

Product	Quantity	Cat. #
Titan HotTaq Power Mix, Ready to load	1 ml (250 reactions)	BT10801

Comments: This product is supplied for research use only.

Related products:

Product	Quantity	Cat. #
Titan Taq DNA Polymerase	500 U	BT10101
Titan Taq DNA Polymerase	1000 U	BT10102
Titan Taq DNA Polymerase	2000 U	BT10103
Titan HotTaq DNA Polymerase	500 U	BT10201
Titan HotTaq DNA Polymerase	1000U	BT10202
Titan Taq 5x PCR Mix, 12.5 mM	1 mL (250 rxn)	BT10402

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Titan HotTaq Probe qPCR Mixes

Applications:

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

Description: Titan HotTaq Probe qPCR Mix is optimized for real-time quantitative PCR assays and contains all the components necessary to perform qPCR, with the exception of template, primers, and probe. The qPCR Mix contains optimized components and Titan HotTaq DNA polymerase supplied in a proprietary reaction buffer that enables detection of low copy number targets.

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. Titan HotTaq Probe qPCR Mix is available with ROX or no ROX dye.

Composition:

Titan HotTaq DNA polymerase

5x qPCR Buffer P

15 mM MgCl₂: 1 x PCR solution – 3 mM MgCl₂

dNTPs, including dTTP to improve reaction sensitivity and efficiency compared to dUTP

ROX dye*

or **no ROX dye**

*ROX dye is an internal passive reference dye used to normalize the fluorescent reporter signal generated in qPCR.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Titan HotTaq Probe qPCR Mix (ROX)	1 mL (250 reactions)	BT11001
Titan HotTaq Probe qPCR Mix (no ROX)	1 mL (250 reactions)	BT11002

Cycler and Probe compatibility:

Titan HotTaq Probe qPCR Mix (ROX) is compatible for use with any probe system and qPCR cyclers requiring high ROX dye level, including ABI PRISM® 5700, 7000, 7300, 7700, 7900 and 7900HT (including Fast-Block); Stratagene Mx3000P™, Mx3005P™ and Mx4000®.

Titan HotTaq Probe qPCR Mix (no ROX) is compatible for use with any probe system and qPCR cyclers that do not require reference dye, including Bio-Rad iQ™ 5, Opticon™, Opticon™ 2; Chromo 4™, MiniOpticon, CFX96, CFX384; Cepheid SmartCycler™; Corbett Rotor-Gene™ 3000, Rotor-Gene™ 6000; Eppendorf Mastercycler® ep realplex; Roche LightCycler® 480 and Techne Quantica™.

Storage conditions: Routine storage: -20°C

Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of Titan HotTaq Probe qPCR Mix.

Comments: This product is supplied for research use only.

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Titan HotTaq EvaGreen® qPCR Mixes

Applications:

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

Description: Titan HotTaq EvaGreen® qPCR Mix is optimized for real-time quantitative PCR assays. The mix includes Titan HotTaq DNA polymerase, ultrapure dNTPs, MgCl₂, EvaGreen® dye (and ROX dye according to system requirements). Only template, primers 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.

Titan HotTaq EvaGreen® qPCR Mix is available with ROX or no ROX dye.

Composition:

Titan HotTaq DNA polymerase

5x qPCR Buffer E

12.5 mM MgCl₂: 1 x PCR solution – 2.5 mM MgCl₂

dNTPs, including dTTP to improve reaction sensitivity and efficiency compared to dUTP

EvaGreen® dye*

ROX dye:**

or **no ROX dye**

* EvaGreen® is a DNA-binding dye for qPCR that, compared to SYBR® Green I, has similar spectra but much less PCR inhibition. It is extremely stable and nonmutagenic/ noncytotoxic. EvaGreen® is compatible with all common qPCR cyclers by selecting the standard settings for SYBR® Green or FAM. "EvaGreen® is a registered trademark of BIOTIUM, INC."

The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer, where such research does not include testing, analysis or screening services for any third party in return for compensation on a per test basis. The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes.

"SYBR® is a registered trademark of Molecular Probes, Inc."

** ROX dye is an internal passive reference dye used to normalize the fluorescent reporter signal generated in qPCR.

ORDERING INFORMATION

Product	Quantity	Cat. #
Titan HotTaq EvaGreen® qPCR Mix (ROX)	1 mL (250 reactions)	BT11101
Titan HotTaq EvaGreen® qPCR Mix (no ROX)	1 mL (250 reactions)	BT11102

Cycler compatibility:

Titan HotTaq EvaGreen® qPCR Mix (ROX) can be used with all major qPCR cyclers requiring ROX dye, including ABI PRISM® 5700, 7000, 7300, 7700, 7900 and 7900HT (including Fast-Block); Stratagene Mx3000P™, Mx3005P™ and Mx4000®.

Titan HotTaq EvaGreen® qPCR Mix (no ROX) can be used with all major qPCR cyclers that do not require reference dye, including Bio-Rad iQ™ 5, Opticon™, Opticon™ 2; Chromo 4™, MiniOpticon, CFX96, CFX384; Corbett Rotor-Gene™ 3000, Rotor-Gene™ 6000; Roche LightCycler® 480 and Techne Quantica™.

Storage conditions: Routine storage: -20°C

Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of Titan HotTaq EvaGreen® qPCR Mix.

Comments: This product is supplied for research use only.

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Titan HotTaq EvaGreen® qPCR Capillary Mix

Applications:

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

Description: Titan HotTaq EvaGreen® qPCR Capillary Mix is optimized for real-time quantitative PCR assays for qPCR cyclers with capillaries. The mix includes Titan HotTaq DNA polymerase, dNTPs, MgCl₂ and EvaGreen® dye. Only template, primers and water need to be added.

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

Composition:

Titan HotTaq DNA polymerase

5x qPCR Buffer E

12.5 mM MgCl₂: 1 x PCR solution – 2.5 mM MgCl₂

dNTPs, including dTTP to improve reaction sensitivity and efficiency compared to dUTP

EvaGreen® dye*

BSA

* EvaGreen® is a DNA-binding dye for qPCR that, compared to SYBR® Green I, has similar spectra but much less PCR inhibition. It is extremely stable and nonmutagenic/ noncytotoxic. EvaGreen® is compatible with all common qPCR cyclers by selecting the standard settings for SYBR® Green or FAM. "EvaGreen® is a registered trademark of BIOTIUM, INC."

The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer, where such research does not include testing, analysis or screening services for any third party in return for compensation on a per test basis. The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes.

"SYBR® is a registered trademark of Molecular Probes, Inc."

ORDERING INFORMATION

Product	Quantity	Cat. #
Titan HotTaq EvaGreen® qPCR Capillary Mix	1 mL (250 reactions)	BT11103

Storage conditions: Routine storage: -20°C

Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of Titan HotTaq EvaGreen® qPCR Capillary Mix.

Comments: This product is supplied for research use only.

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Atlas PCR Water

Description: Atlas PCR Water is RNase, DNase and DNA contamination free. It is sterile and UV irradiated. Manufactured and tested for use as a component in PCR reactions. Validated as well for use with highly sensitive PCR reaction including those with eubacterial primer sets. Stored in convenient 2 mL tubes to avoid unnecessary melting and freezing of the whole water supply.

Quality control: Free of RNase, DNase and DNA contamination

Storage conditions: Store at 20-25°C for up to 12 months

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas PCR Water	10 x 1.8 mL	BA01201
Atlas PCR Water	25 x 1.8 mL	BA01202
Atlas PCR Water	5 x 10 mL	BA01203

Comments: This product is supplied for research use only.

Atlas 25 mM MgCl₂

Description: Atlas 25 mM MgCl₂ can be used for optimization of magnesium ion concentration in PCR reaction.

Quality control: Amplification of a single-copy gene from human genomic DNA.

Storage conditions: Store at -20°C for up to 12 months

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 25 mM MgCl ₂	1.8 mL	BA00153
Atlas 25 mM MgCl ₂	5 x 1.8 mL	BA00154

Comments: This product is supplied for research use only.

Atlas 10x Taq Buffer

Description: 10x Taq Buffer is a ready-to-use buffer to be used for Atlas Taq, Atlas HotTaq, Atlas RedTaq and Atlas LongTaq enzymes in PCR reactions. Does not contain MgCl₂.

Composition: 100 mM Tris-HCl (pH 8.8 at 25°C), 500 mM KCl, 0.8% Nonident P40.

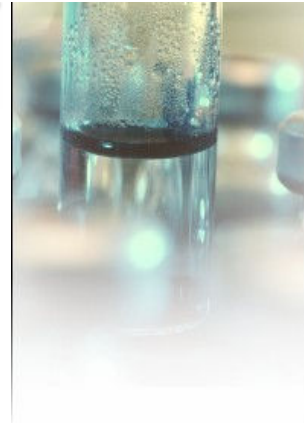
Quality control: Amplification of a single-copy gene from human genomic DNA.

Storage conditions: Store at -20°C for up to 12 months.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 10x Taq Buffer	1.8 mL	BA00151

Comments: This product is supplied for research use only.

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Atlas 10x Taq Buffer with $(\text{NH}_4)_2\text{SO}_4$

Description: Atlas 10x Taq Buffer with $(\text{NH}_4)_2\text{SO}_4$ is a ready-to-use buffer to be used for Atlas Taq, Atlas HotTaq, Atlas RedTaq and Atlas LongTaq enzymes in PCR reactions. Does not contain MgCl_2 .

Composition: 750 mM Tris-HCl (pH 8.8 at 25°C), 200 mM $(\text{NH}_4)_2\text{SO}_4$, 0.1% Tween 20.

Quality control: Amplification of a single-copy gene from human genomic DNA.

Storage conditions: Store at -20°C for up to 12 months.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 10x Taq Buffer with $(\text{NH}_4)_2\text{SO}_4$	1.8 mL	BA00152

Comments: This product is supplied for research use only.

Atlas Nucleotide Mixes

Description:

- Mix of four dNTPs in one tube
- Compatible with most molecular biology applications

Easy to use, time-saving solutions for use in applications requiring dNTPs of high purity. Atlas Nucleotide Mix contains dATP, dCTP, dGTP and dTTP, each at a final concentration of either 2 mM or 10 mM. Atlas Nucleotide Mixes has been tested for PCR and is compatible for all enzymes provided by Bioatlas.

Storage conditions: Stable for 24 months when stored at -20°C.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 10 mM Nucleotide Mix	1 mL	BH40201
Atlas 2 mM Nucleotide Mix	1 mL	BH40202

Comments: This product is supplied for research use only.

Atlas dNTP Set (100 mM each)

Description:

- Separate vials of four dNTPs
- Concentrated neutralized solutions

Atlas dNTP Set contains four separate vials (4x0.4 ml) of dATP, dCTP, dGTP and dTTP, at a concentration of 100 mM each, in highly purified (>99%) deionized water at pH 7.5. Atlas dNTP Set is free of RNase and DNase, and suitable for any molecular biology application that requires pure deoxynucleotides, such as PCR, real-time PCR, DNA sequencing, cDNA synthesis and nick translation. Atlas dNTP Set has been tested for PCR and is compatible for all enzymes provided by Bioatlas.

Storage conditions: Stable for 24 months when stored at -20°C.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas dNTP Set (100 mM each)	4 x 0.4 mL	BH40203

Comments: This product is supplied for research use only.

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Electrophoresis

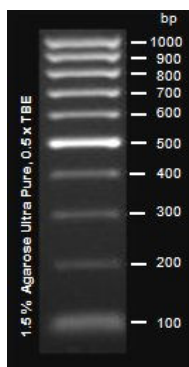


ELECTROPHORESIS	
DNA Ladders	27
Atlas Star 100 bp DNA Ladders	27
Atlas Star Mid-Range DNA Ladders	27
Atlas Star 1 Kb DNA Ladder EXPRESS	27
Reagents for DNA Electrophoresis	28
Atlas Agarose Ultra Pure	28
Atlas Ethidium Bromide Solution	28
AtlasSight DNA Stain	29
Atlas Load 6x Loading Dye Bromophenol Blue	30
Atlas Load 6x Loading Dye Orange G	30

Electrophoresis



Atlas Star 100 bp DNA Ladders



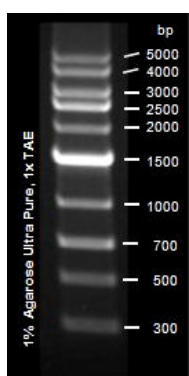
- For precise sizing of double-stranded DNA fragments from 100 to 1000 bp on agarose gels.

Description: Atlas Star 100 bp DNA Ladders consist of ten fragments: 100 bp, 200 bp, 300 bp, 400 bp, **500 bp**, 600 bp, 700 bp, 800 bp, 900 bp and 1000 bp (Figure 1). Supplied in sufficient quantity for 100 loadings using 4-5 μ l per loading. Not designed for quantization of DNA concentration in a sample. Ladders available premixed as ready-to-use format premixed with loading-dye-solution (EXPRESS) or plain ladder to be mixed with loading dye of choice (also available from Bioatlas).

Storage conditions: Stable at room temperature for 12 months

Figure 1. Atlas Star 100 bp DNA Ladder

Atlas Star Mid-Range DNA Ladders



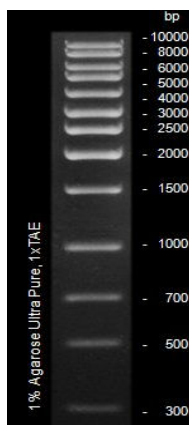
- For precise sizing of double-stranded DNA fragments from 300 to 5000 bp on agarose gels.

Description: Atlas Star Mid-Range DNA Ladder consists of ten fragments: 300 bp, 500 bp, 500 bp, 1000 bp, **1500 bp**, 2000 bp, 2500 bp, 3000 bp, 4000 bp and 5000 bp (Figure 2). Supplied in sufficient quantity for 100 loadings using 4-5 μ l per loading. Not designed for quantization of DNA concentration in a sample. Ladders available premixed as ready-to-use format premixed with loading-dye-solution (EXPRESS) or plain ladder to be mixed with loading dye of choice (also available from Bioatlas).

Storage conditions: Stable at room temperature for 12 months

Figure 2. Atlas Star Mid-Range DNA Ladder

Atlas Star 1 Kb DNA Ladder EXPRESS



- For precise sizing of double-stranded DNA fragments from 1000 to 10000 bp on agarose gels.

Description: Atlas Star 1 Kb DNA Ladder consists of 13 fragments: 300 bp, 500 bp, 700 bp, 1000 bp, 1500 bp, 2000 bp, 2500 bp, 3000 bp, 4000 bp, 5000 bp, 6000 bp, 8000 bp and 10000 bp (Figure 3). Atlas 1 kb DNA Ladder is a ready-to-use molecular weight marker suitable for DNA fragment size determination on gel electrophoresis. Atlas 1 kb DNA Ladder is formulated to run accurately and to provide crisp band patterns. It contains two dyes: bromophenol blue and xylene cyanole which serve as visual aid to monitor the progress of migration during agarose gel electrophoresis.

Storage conditions: -20°C is recommended for long term storage. Shipping and storage for up to 9 months at room temperature has no detrimental effects on the quality of this reagent.

Figure 3. Atlas Star 1 Kb DNA Ladder EXPRESS

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas Star 100 bp DNA Ladder EXPRESS	500 μ L	BA01302
Atlas Star 100 bp DNA Ladder	500 μ L	BA01304
Atlas Star Mid-Range DNA Ladder EXPRESS	500 μ L	BA01306
Atlas Star Mid-Range DNA Ladder	500 μ L	BA01308
Atlas Star 1Kb DNA Ladder EXPRESS	500 μ L	BT10701

Comments: These products are for research use only.

Atlas Agarose Ultra Pure

Applications:

- Analytical electrophoresis of DNA and RNA
- Blotting of DNA and RNA

Description: Atlas Agarose Ultra Pure is nuclease-free all purpose agarose powder. Ideal for routine analysis of nucleic acids by gel electrophoresis (100 - 23000 bp) or blotting (>1 Kb) and is also suitable for protein applications. Due to its low EEO, DNA will have a high electrophoretic mobility.

Features:

- Gel strength (1%) ≥ 1200 g/cm²
- Gelling temperature (1.5%) $36^{\circ}\text{C} \pm 1.5^{\circ}\text{C}$
- Melting temperature (1.5%) $\geq 90^{\circ}\text{C}$
- Moisture: $\leq 10\%$
- Sulfate: $\leq 0.15\%$
- EEO (-mr): 0.05 – 0.13

Storage conditions: Store at room temperature. Protect from moisture. Light Sensitive.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas Agarose Ultra Pure	100 g	BA01101
Atlas Agarose Ultra Pure	500 g	BA01102

Comments: This product is supplied for research use only.

Atlas Ethidium Bromide Solution

Description: 1% ethidium bromide solution is a concentrated fluorescent staining solution for visualizing ribonucleic acids in agarose and polyacrylamide gels. Ethidium bromide is excited with a standard 302 nm UV transilluminator and emits a red-orange signal.

Storage conditions: Store at +4°C protected from light.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas Ethidium Bromide Solution, 1%	10 mL	BA01901
Atlas Ethidium Bromide Solution, 1%	5 x 1 mL	BA01902

Comments: This product is supplied for research use only.

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AtlasSight DNA Stain

Applications:

- Non-carcinogenic alternative to ethidium bromide.
- Excellent for nucleic acid electrophoresis and purification applications.

Description: AtlasSight DNA Stain is a nucleic acid stain which can be used as a safer alternative to the traditional ethidium bromide stain for detecting nucleic acid in agarose gels. It is as sensitive as ethidium bromide and can be used exactly the same way in agarose gel electrophoresis for precast gels (Figure 1). Additionally, when when better sensitivity is needed - poststaining is recommended.

AtlasSight DNA Stain emits green fluorescence when bound to DNA or RNA. It has two secondary fluorescence excitation peaks (~300 nm; ~400 nm) and one strong excitation peak centered around 500 nm. The fluorescence emission is similar to ethidium bromide when bound to DNA - at ~ 540 nm.

AtlasSight DNA Stain is non-carcinogenic and according to the Ames test it causes significantly fewer mutations than ethidium bromide. In addition, the test results of micronucleus test in bone marrow polychromatic erythrocytes and of chromosomal aberration test in mice testicular spermatocytes with AtlasSight DNA Stain were negative. Therefore it is wise to choose AtlasSight DNA Stain instead of ethidium bromide for detecting nucleic acid in agarose gels.

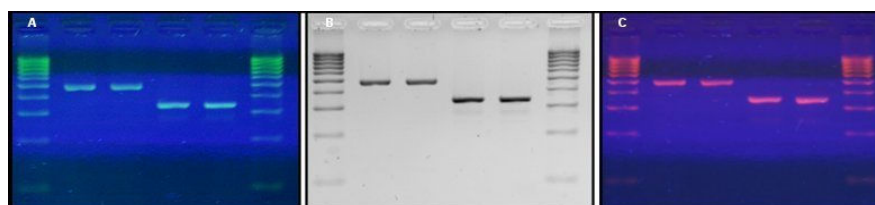


Figure 1. Agarose gels, stained by AtlasSight DNA Stain (A and B) and Ethidium bromide (C).

ORDERING INFORMATION		
Product	Quantity	Cat. #
AtlasSight DNA Stain	1 mL	BH40401
AtlasSight DNA Stain	5 x 1 mL	BH40402

Storage conditions: Store at room temperature or at +4°C, protected from light.

Protocol:

Precasting: Prepare 100 ml of agarose gel solution (concentration from 0.8-3.0%) and heat until the solution is completely clear and no small floating particles are visible. Add 2-5 µl of AtlasSight DNA Stain to the cooled gel solution (60-70°C), mix it gently and pour into the gel tray (for higher sensitivity, the gel should be less than 0.5 cm thick). When the gel is solid, load the samples and perform electrophoresis. Detect the bands under UV. **Note:** Repeated melting of gels containing AtlasSight DNA Stain may result in low sensitivity.

Poststaining: For <0.5 cm thick agarose gel, 5-15 ul of the stain should be used per 100 ml of buffer. Optimal staining time (5 - 60 minutes) and the amount of the stain may depend on the thickness of the gel and the percentage of agarose. **Note:** The AtlasSight poststaining solution may be used 2-3 times. Staining solution to be reused should be preferably stored at room temperature in the dark.

Comments: This product is supplied for research use only.

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Atlas Load 6x Loading Dye Bromophenol Blue

Description: Atlas Load 6x Loading Dye contains bromophenol blue and xylene cyanol FF. The ready-to-use solution can be used for loading samples on agarose or polyacrylamide gels.

Composition: 10 mM TrisHCl (pH 7.6), 0.03% bromophenol blue, 0.03% xylene cyanol FF, 60% glycerol, 60 mM EDTA

Quality control: Functionally tested for DNA sample loading on agarose gel electrophoresis

Storage conditions: Store at +4°C up to 12 months.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas Load 6x Loading Dye Bromophenol Blue	6 x 1 mL	BA01401

Atlas Load 6x Loading Dye Orange G

Description: Atlas Load 6x Loading Dye contains orange G and xylene cyanol FF. The ready-to-use solution can be used for loading samples on agarose or polyacrylamide gels.

Composition: 10 mM TrisHCl (pH 7.6), 0.03% xylene cyanol FF, 0.15% orange G, 60% glycerol, 60 mM EDTA

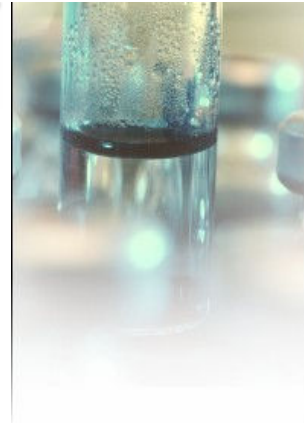
Quality control: Functionally tested for DNA sample loading on agarose gel electrophoresis

Storage conditions: Store at +4°C up to 12 months.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas Load 6x Loading Dye Orange G	6 x 1 mL	BA01402

Comments: These products are for research use only.

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Buffers



BUFFERS	
Ready Mixed Powders	32
Atlas 10x PBS - Ready Mixed Powder	32
Atlas 20x SSC - Ready Mixed Powder	32
Atlas TBE Buffers - Ready Mixed Powders	32
Atlas 10x Tris-Glycine Buffer - Ready Mixed Powder	33
Atlas 10x Tris-Glycine-SDS - Ready Mixed Powder	33
Ready Mixed Buffer Solutions	33
Atlas 10x TAE Buffer Solution	33
Atlas 10x PBS Buffer Solution	34
Atlas 20x SSC Buffer Solution	34
Atlas TBE Buffer Solutions	34
Atlas 10x Tris-Glycine Buffer Solution	35
Atlas 10x Tris-Glycine-SDS Buffer Solution	35



Atlas 10x PBS – Ready Mixed Powder

Description: Ready-mixed phosphate buffered saline powder to be dissolved in 1 L of distilled water. On dilution, the resultant 1x PBS will have final concentration: 137 mM Sodium Chloride, 10 mM Phosphate, 2.7 mM Potassium Chloride, pH 7.4.

Storage conditions: Store at room temperature.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 10x PBS Ready-Mixed Powder	For 1 L	BA01701

Atlas 20x SSC – Ready Mixed Powder

Description: Ready-mixed SSC powder to be dissolved in 1 L of distilled water. On dilution, the resultant 1x SSC will have final concentration: 150 mM Sodium Chloride, 15 mM Sodium Citrate, pH 7.0.

Storage conditions: Store at room temperature.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 20x SSC Ready-Mixed Powder	For 1 L	BA01702

Atlas TBE Buffers – Ready Mixed Powders

Description: Ready-mixed Tris-Borate-EDTA Buffer powder to be dissolved in 1 L of distilled water. On dilution, the resultant 1x TBE solution will have final concentration: 89 mM Tris Base, 89 mM Borate, 2 mM EDTA, pH 8.2.

Storage conditions: Store at room temperature. The reconstituted buffer is stable for several days at 4°C if 0.2 µm filtered.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 5x TBE Ready-Mixed Powder	For 1 L	BA01703
Atlas 10x TBE Ready-Mixed Powder	For 1 L	BA01704

Comments: These products are for research use only.

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Atlas 10x Tris-Glycine Buffer – Ready Mixed Powder

Description: Ready-mixed Tris-Glycine Buffer powder to be dissolved in 1 L of distilled water. On dilution, the resultant 1x Tris-Glycine Buffer will have final concentration: 25 mM Tris, 192 mM glycine, pH 8.3. Tris-glycine buffer is used to make a Tris-glycine-methanol transfer buffer, which is the most common protein transfer buffer for wet blot transfers. The methanol prevents the gel from swelling during the transfer and enhances the protein binding to nitrocellulose. The 10x Tris-glycine buffer is diluted to 1x with methanol and water to make a solution containing 20% methanol.

Storage conditions: Store at room temperature.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 10x Tris-Glycine Buffer Ready-Mixed Powder	For 1 L	BA01707

Atlas 10x Tris-Glycine-SDS Buffer – Ready Mixed Powder

Description: Ready-mixed Tris-Glycine-SDS Buffer powder to be dissolved in 1 L of distilled water. On dilution, the resultant 1x Tris-Glycine-SDS Buffer will have final concentration: 25 mM Tris, 192 mM glycine, 0.1% SDS, pH 8.6. Tris-glycine-SDS Buffer is the most commonly used buffer for sodium dodecyl sulfate – polyacrylamide gel electrophoresis (SDS-PAGE) of proteins. It is usually used for both the anode buffer and the cathode buffer. Recommended running conditions is 150 volts for mini vertical gel electrophoresis units.

Storage conditions: Store at room temperature.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 10x Tris-Glycine-SDS Buffer Ready-Mixed Powder	For 1 L	BA01708

Atlas 10x TAE Buffer Solution

Description: 10x concentrated aqueous solution. On dilution, the resultant 1x TAE Buffer will have final concentration: 40 mM Tris, 1 mM EDTA- $\text{Na}_2 \cdot 2\text{H}_2\text{O}$, 20 mM acetic acid, pH 8.5.

Storage conditions: Store at room temperature.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 10x TAE Buffer Solution	100 mL	BA01801

Comments: These products are for research use only.

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Atlas 10x PBS Buffer Solution

Description: Ready-mixed phosphate buffered saline solution. On dilution, the resultant 1x PBS will have final concentration: 137 mM Sodium Chloride, 10 mM Phosphate, 2.7 mM Potassium Chloride, pH 7.4.

Storage conditions: Store at room temperature.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 10x PBS Buffer Solution	6 x100 mL	BA01802

Atlas 20x SSC Buffer Solution

Description: Ready-mixed SSC solution. On dilution, the resultant 1x SSC will have final concentration: 150 mM Sodium Chloride, 15 mM Sodium Citrate, pH 7.0.

Storage conditions: Store at room temperature.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 20x SSC Buffer Solution	6 x100 mL	BA01803

Atlas TBE Buffer Solutions

Description: Ready-mixed Tris-Borate-EDTA solution. On dilution, the resultant 1x TBE solution will have final concentration: 89 mM Tris Base, 89 mM Borate, 2 mM EDTA, pH 8.2.

Storage conditions: Store at room temperature.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 10x TBE Buffer Solution	6 x100 mL	BA01804
Atlas 5x TBE Buffer Solution	6 x100 mL	BA01805

Comments: These products are for research use only.

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Atlas 10x Tris-Glycine Buffer Solution

Description: Ready-mixed Tris-Glycine solution. On dilution, the resultant 1x Tris-Glycine Buffer will have final concentration: 25 mM Tris, 192 mM glycine, pH 8.3.

Storage conditions: Store at room temperature.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 10x Tris-Glycine Buffer Solution	6 x 100 mL	BA01806

Atlas 10x Tris-Glycine-SDS Buffer Solution

Description: Ready-mixed Tris-Glycine-SDS solution. On dilution, the resultant 1x Tris-Glycine-SDS Buffer will have final concentration: 25 mM Tris, 192 mM glycine, 0.1% SDS, pH 8.6. Tris-glycine-SDS Buffer is the most commonly used buffer for sodium dodecyl sulfate – polyacrylamide gel electrophoresis (SDS-PAGE) of proteins. It is usually used for both the anode buffer and the cathode buffer. Recommended running conditions is 150 volts for mini vertical gel electrophoresis units.

Storage conditions: Store at room temperature.

ORDERING INFORMATION		
Product	Quantity	Cat. #
Atlas 10x Tris-Glycine-SDS Buffer Solution	6 x 100 mL	BA01807

Comments: These products are for research use only.

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GENERAL INFORMATION

Date of order	
Order number (PO#)	
Name of the organization	
Name of the contact person	
E-mail of the contact person	
Phone of the contact person	
Delivery and Invoicing address (please indicate two, in case they differ)	
VAT number	

ORDER INFORMATION

Delivery option		
Product name	Cat #	Quantity *
Atlas Taq DNA Polymerase 500U	BA00103	
Atlas Taq DNA Polymerase 1000U	BA00104	
Atlas Taq DNA Polymerase 2500U	BA00105	
Atlas HotTaq DNA Polymerase 500U	BA00203	
Atlas HotTaq DNA Polymerase 1000U	BA00204	
Atlas HotTaq DNA Polymerase 2500U	BA00205	
Atlas RedTaq DNA Polymerase 500U	BA00303	
Atlas RedTaq DNA Polymerase 1000U	BA00304	
Atlas RedTaq DNA Polymerase 2500U	BA00305	
Atlas LongTaq DNA Polymerase 500U	BA00403	
Atlas LongTaq DNA Polymerase 1000U	BA00404	
Atlas LongTaq DNA Polymerase 2500U	BA00405	
Atlas Pfu DNA Polymerase 500U	BA00503	
Atlas Pfu DNA Polymerase 1000U	BA00504	
Atlas Pfu DNA Polymerase 2500U	BA00505	
Titan Taq DNA Polymerase 500U	BT10101	
Titan Taq DNA Polymerase 1000U	BT10102	
Titan Taq DNA Polymerase 2000U	BT10103	
Titan HotTaq DNA Polymerase 500U	BT10201	
Titan HotTaq DNA Polymerase 1000U	BT10202	
Titan Thermo DNA Polymerase 2000U	BT10302	
Titan H Minus M-MLV Reverse Transcriptase	BT10901	
Atlas Taq 2x PCR Mix 1 mL (100 rxn)	BA01501	
Atlas HotTaq 2x PCR Mix 1 mL (100 rxn)	BA01503	
Atlas RedTaq 2x PCR Mix 1 mL (100 rxn)	BA01507	
Titan Taq 5x PCR Mix 12.5 mM 1 mL (250 rxn)	BT10402	
Titan Taq 5x PCR Mix Ready-to-Load 12.5 mM 1 mL (250 rxn)	BT10502	
Titan HotTaq Power Mix 1 mL (250 rxn)	BT10801	
Titan HotTaq Probe qPCR Mix (ROX) 1 mL (250 rxn)	BT11001	
Titan HotTaq Probe qPCR Mix (no ROX) 1 mL (250 rxn)	BT11002	
Titan HotTaq EvaGreen® qPCR Mix (ROX) 1 mL (250 rxn)	BT11101	
Titan HotTaq EvaGreen® qPCR Mix (no ROX) 1 mL (250 rxn)	BT11102	
Titan HotTaq EvaGreen® qPCR Capillary Mix 1 mL (250 rxn)	BT11103	
Atlas PCR Water 10 x 1.8 mL	BA01201	
Atlas PCR Water 25 x 1.8 mL	BA01202	
Atlas PCR Water 5 x 10 mL	BA01203	
Atlas 25 mM MgCl ₂ 1.8 mL	BA00153	
Atlas 25 mM MgCl ₂ 5 x 1.8 mL	BA00154	
Atlas 10x Taq Buffer 1.8 mL	BA00151	
Atlas 10x Taq Buffer with (NH ₄) ₂ SO ₄ 1.8 mL	BA00152	
Atlas 10 mM Nucleotide Mix 1 mL	BH40201	
Atlas 2 mM Nucleotide Mix 1mL	BH40202	
Atlas dNTP Set (100mM each)	BH40203	

Order Form

Atlas Star 100 bp DNA Ladder Express 500 µL	BA01302	
Atlas Star 100 bp DNA Ladder 500 µL	BA01304	
Atlas Star Mid-Range DNA Ladder Express 500 µL	BA01306	
Atlas Star Mid-Range DNA Ladder 500 µL	BA01308	
Atlas Star 1 Kb DNA Ladder Express 500 µL	BT10701	
Atlas Agarose Ultra Pure 100g	BA01101	
Atlas Agarose Ultra Pure 500g	BA01102	
Atlas Ethidium Bromide 1% Solution 10 mL	BA01901	
Atlas Ethidium Bromide 1% Solution 5 x 1 mL	BA01902	
AtlasSight DNA Stain 1 mL	BH40401	
AtlasSight DNA Stain 5x1 mL	BH40402	
Atlas Load 6x Loading Dye Bromophenol Blue 6 x 1 mL	BA01401	
Atlas Load 6x Loading Dye Orange G 6 x 1 mL	BA01402	
Atlas 10x PBS Ready-Mixed Powder, for 1 L	BA01701	
Atlas 20x SSC Ready-Mixed Powder, for 1 L	BA01702	
Atlas 5x TBE Ready-Mixed Powder, for 1 L	BA01703	
Atlas 10x TBE Ready-Mixed Powder, for 1 L	BA01704	
Atlas 10x Tris-Glycine Buffer Ready-Mixed Powder, for 1 L	BA01707	
Atlas 10x Tris-Glycine-SDS Buffer Ready-Mixed Powder, for 1 L	BA01708	
Atlas 10x TAE Buffer Solution 6x100 mL	BA01801	
Atlas 10x PBS Buffer Solution 6x100 mL	BA01802	
Atlas 20x SSC Buffer Solution 6x100 mL	BA01803	
Atlas 10x TBE Buffer Solution 6x100 mL	BA01804	
Atlas 5x TBE Buffer Solution 6x100 mL	BA01805	
Atlas 10x Tris-Glycine Buffer Solution 6x100 mL	BA01806	
Atlas 10x Tris-Glycine-SDS Buffer Solution 6x100 mL	BA01807	
COMMENTS		

* BioAtlas offers flexible packaging. We recommend ordering optimal aliquots based on the actual usage. The standard aliquot is mentioned beside the product name, but we are able to deliver other volumes based on individual agreements.