

# BioLit™ PCR Reagents

Robust Amplification with Taq DNA Polymerase,  
Master Mixes, PCR Kits & many more

Driven by rapid technological advancements in Polymerase Chain Reactions (PCR) and DNA Sequencing which are key players in Life Science Research and Clinical Diagnostics, the **SRL BioLit™** product line offers its wide range of PCR reagents which are of high quality, economical and convenient to use.

## Taq DNA Polymerase

Taq DNA Polymerase is a highly thermostable enzyme widely used in PCR for its ability to catalyze the 5' → 3' synthesis of DNA.

**SRL BioLit™** offers a wide range of Taq DNA polymerases which are accompanied by appropriate buffers (with/without MgCl<sub>2</sub>) and 6× loading dye.

### Key Features:

- Highly purified Taq DNA Polymerase
- Sourced from a Recombinant Strain
- Ideal for standard PCR/labeling/sequencing
- Available in small, medium and bulk pack sizes to cover all requisites of a lab/researcher/student
- Offered as Combo packs of Taq DNA polymerase, buffers, MgCl<sub>2</sub> and dNTP mix & available with every type of Taq polymerase, helping the researchers optimize the components according to their experimental needs.

## Synopsis for SRL's Taq DNA Polymerases

	Product Code	Product Name	Amplicon length	Proof reading	Elongation velocity	TA cloning	Product end	Features	Pkg
Everyday-use Polymerase	61524	TAQ DNA Polymerase (1U/μl)	Upto 5 kb	-	0.9-1.2kb/min	+	3'-dA Overhangs	Amplification of DNA fragments, PCR cloning, labeling, sequencing	500 units, 1000 units & 5000 units
	32976	TAQ DNA Polymerase (3U/μl)	Upto 5 kb	-	0.9-1.2kb/min	+	3'-dA Overhangs	Amplification of DNA fragments, PCR cloning, labeling, sequencing	500 units, 1000 units, 5000 units & 10000 units
	82487	TAQ DNA Polymerase (5U/μl)	Upto 5 kb	-	0.9-1.2kb/min	+	3'-dA Overhangs	Amplification of DNA fragments, PCR cloning, labeling, sequencing	500 units, 1000 units, 3000 units & 5000 units
	12816	TAQ DNA Polymerase (5U/μl)(w/ 6× Buffer)	Upto 5 kb	-	0.9-1.2kb/min	+	3'-dA Overhangs	Amplification of DNA fragments, PCR cloning, labeling, sequencing	500 units, 1000 units, 5000 units & 10000 units
	51613	TAQ DNA Polymerase (5U/μl)(w/6× Buffer, w/ dNTP)	Upto 5 kb	-	0.9-1.2kb/min	+	3'-dA Overhangs	Amplification of DNA fragments, PCR cloning, labeling, sequencing	500 units, 1000 units, 5000 units & 10000 units
	45758	TAQ DNA Polymerase (5U/μl)(Large)	Upto 5 kb	-	0.9-1.2kb/min	+	3'-dA Overhangs	Amplification of DNA fragments, PCR cloning, labeling, sequencing	18000 units
High specificity Polymerase	46033	HSP TAQ DNA Polymerase (5U/μl)	Upto 5 kb	-	0.9-1.2kb/min	+	3'-dA Overhangs	Highly specific incorporation of primer and template	500 units & 1000 units
	79383	HSP TAQ DNA Polymerase (5U/μl)(Large)	Upto 5 kb	-	0.9-1.2kb/min	+	3'-dA Overhangs	Highly specific incorporation of primer and template	18000 units
High Fidelity Polymerase	22774	Pfu DNA Polymerase (5U/μl)	Upto 2 kb	+	0.2-0.4kb/min	-	Blunt ends	10 times the fidelity of Taq DNA polymerase	250 units & 1000 units
	49069	Pfu DNA Polymerase (5U/μl)(w/ dNTP)	Upto 2 kb	+	0.2-0.4kb/min	-	Blunt ends	10 times the fidelity of Taq DNA polymerase	250 units & 1000 units
	85737	TAQ Plus DNA Polymerase (2.5U/μl)	Upto 20 kb	+	0.6-0.8kb/min	+	3'-dA Overhangs	4 times the fidelity of Taq DNA polymerase	250 units & 1000 units
	93561	TAQ Plus DNA Polymerase (2.5U/μl)(w/ dNTP)	Upto 20 kb	+	0.6-0.8kb/min	+	3'-dA Overhangs	4 times the fidelity of Taq DNA polymerase	250 units & 1000 units
Long template amplifying Polymerase	15367	Long TAQ DNA Polymerase (5U/μl)	Upto 20 kb	-	0.9-1kb/min	+	3'-dA Overhangs & Blunt ends	3 times the fidelity of Taq DNA polymerase	250 units & 1000 units
	94126	Long TAQ DNA Polymerase (5U/μl)(w/dNTP)	Upto 20 kb	-	0.9-1kb/min	+	3'-dA Overhangs & Blunt ends	3 times the fidelity of Taq DNA polymerase	250 units & 1000 units
Highly efficient & Fast elongating Polymerase	58235	FSP TAQ DNA Polymerase (5U/μl)	Upto 5 kb	-	3kb/min	+	3'-dA Overhangs	High amplification efficiency and fast elongation - 2× higher than regular Taq DNA polymerase	250 units, 1000 units & 3000 units
	70073	FSP TAQ DNA Polymerase (5U/μl)(w/dNTP)	Upto 5 kb	-	3kb/min	+	3'-dA Overhangs	High amplification efficiency and fast elongation - 2× higher than regular Taq DNA polymerase	250 units, 1000 units & 3000 units

\* Bulk pack sizes available on request  
# All BioLit™ products are delivered with a complete Product Insert

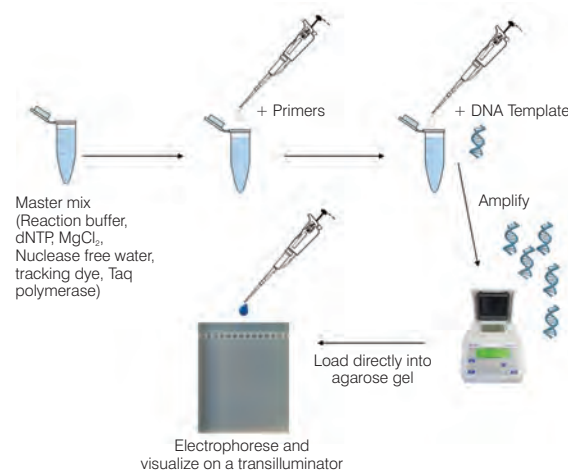
## PCR Master Mixes

**SRL BioLit™** offers a variety of ready-to-use Master Mixes, comprising of various components necessary for setting up PCR reactions albeit sans primers and template.

Our Master Mixes are mixed with a tracking dye which facilitates the user in loading the sample directly on to the agarose gel after amplification.

### Key Features:

- Pre-mixed formulations prevents handling and pipetting errors
- Time saving and reduces chance of contamination
- Provides optimum conditions for PCR application
- Users only need to add primers and DNA Template



Graphical description to add to PCR Master Mix

## Synopsis for SRL's PCR Master Mixes

Product Code	Product Name	Components	Pkg
50900	Taq Mix (2×)	Taq Polymerase, Reaction Buffer, Mg <sup>2+</sup> , dNTP & tracking dye	1ml (40 rxns) & 5×1ml (200rxns)
94531	Pfu Mix (2×)	Pfu DNA Polymerase, dNTP, MgSO <sub>4</sub> , Reaction Buffer & tracking dye	1ml (40 rxns) & 5×1ml (200rxns)
23782	Plus Mix (2×)	Taq Plus DNA Polymerase, dNTP, MgCl <sub>2</sub> , Reaction Buffer & tracking dye	1ml (40 rxns) & 5×1ml (200rxns)
66677	HSP Mix (2×)	HSP Taq Polymerase, Reaction Buffer, Mg <sup>2+</sup> , dNTP & tracking dye	1ml (40 rxns) & 5×1ml (200rxns)
36250	Long Taq Mix (2×)	Long Taq Polymerase, Reaction Buffer, Mg <sup>2+</sup> , dNTP & tracking dye	1ml (40 rxns) & 5×1ml (200rxns)
11307	FSP Taq Mix (2×)	FSP Taq Polymerase, Reaction Buffer, Mg <sup>2+</sup> , dNTP & tracking dye	1ml (40 rxns) & 5×1ml (200rxns)
84729	FSP Taq Mix Direct for blood (2×)	FSP Taq Polymerase, Reaction Buffer, Mg <sup>2+</sup> , dNTP & tracking dye	1ml (40 rxns) & 5×1ml (200rxns)
20220	FSP Taq Mix Direct for tissue (2×)	FSP Taq Polymerase, Reaction Buffer, Mg <sup>2+</sup> , dNTP & tracking dye	1ml (40 rxns) & 5×1ml (200rxns)

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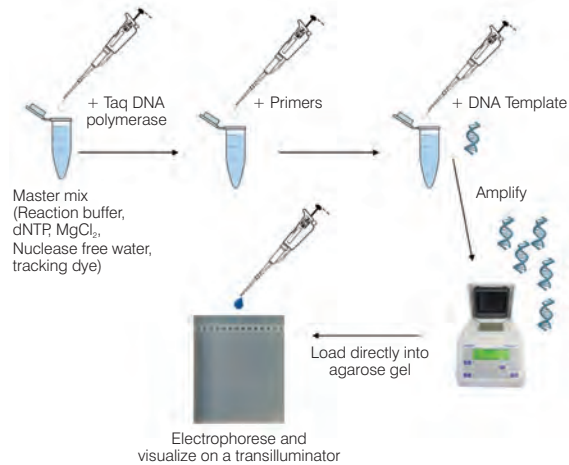
## PCR Kits

**SRL BioLit™** understands that users & researchers may also wish to optimize some of the components for PCR based on their experimental requisites, therefore we offer various PCR Kits which comprise of different kinds of Taq polymerases, ready-to-use 2× Reaction Mix with optimized reaction buffer, dNTP, MgCl<sub>2</sub> and tracking dyes.

Vials of (5 x 1ml) of 2× Reaction Mixes can be used for 200 reactions.

### Key Features:

- Ready-to-use
- Saves time and pipetting error.
- Provides optimum conditions for PCR application
- Users only need to add primers and DNA Template



Graphical description to add to PCR Kits

## Synopsis for SRL's PCR Kits

Product Code	Product Name	Kit components	Pkg
11405	PCR Kit (Taq Mix Kit)	Taq DNA polymerase (2.5U/μl), 2× PCR Reaction Mix	5×1ml (200rxns)
61090	HSP Kit	HSP DNA polymerase (2.5U/μl), 2× HSP Reaction Mix	5×1ml (200rxns)
75906	Long Taq Kit	Long Taq DNA polymerase (2.5U/μl), 2× Long Taq Reaction Mix & PCR enhancer	5×1ml (200rxns)
93658	FSP Kit	FSP DNA polymerase (2.5U/μl), 2× FSP Reaction Mix	5×1ml (200rxns)
12770	Pfu Kit	Pfu DNA polymerase (2.5U/μl), 2× Pfu Reaction Mix	5×1ml (200rxns)

\* Bulk pack sizes available on request

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## RT-PCR Kit

This kit is optimized to synthesize first-strand cDNA from purified poly (A)+ or total RNA and delivers increased cDNA yields, high sensitivity, and full-length transcripts in a convenient format.

All the components needed for successful first-strand cDNA synthesis are included, thus saving time and ensuring success with every experiment.

## Synopsis for SRL's RT-PCR Kit

Product Code	Product Name	Kit components	Pkg
94837	RT-PCR Kit	M-MLV (200U/μl), RNasin (40U/μl), Oligo(dT)15 primer (50μM), Random hexamer primer(50μM), 5× First-strand Buffer, RNase-free Water, dNTP mix (10mM each)	20 preps & 100 preps

\* Bulk pack sizes available on request

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## dNTP Mixes & Sets

**SRL BioLit™** offers high quality dNTP as Mixes & Sets and also as individual dNTP solutions, which play an important role in applications such as DNA Amplification, cDNA Synthesis, DNA Labeling and DNA Sequencing. In our chemical sections of the catalogue, these dNTP are also offered as highly pure lyophilized powders.

### Key Features:

#### dNTP Mixes

- Ready-to-use
- Used in all kinds of PCR applications
- Saves time & reduces error

#### dNTP Sets

- Offers maximum flexibility in preparation of reaction buffer.

#### Individual dNTP's

- Offers freedom to toggle with the concentration of the nucleotide

## Synopsis for SRL's dNTP Mixes & Sets

Product Code	Product Name	Kit components	Pkg
70596	dNTP mix (2.5mM each)	Ready-to-use aqueous solution at pH 7.0 containing dATP, dCTP, dGTP and dTTP, each at a final concentration of 2.5mM	1ml, 5×1ml
52618	dNTP mix (10mM each) RNase free	Ready-to-use aqueous solution at pH 7.0 containing dATP, dCTP, dGTP and dTTP, each at a final concentration of 10mM and assuredly free of RNase contamination	0.5ml
18821	dNTP mix (10mM each)	Ready-to-use aqueous solution at pH 7.0 containing dATP, dCTP, dGTP and dTTP, each at a final concentration of 10mM	1ml, 5×1ml
14464	dNTP mix (25mM each)	Ready-to-use aqueous solution at pH 7.0 containing dATP, dCTP, dGTP and dTTP, each at a final concentration of 25mM	1ml, 5×1ml
69478	dNTP set (10mM each)	10mM aqueous solutions of dATP, dTTP, dCTP and dGTP each supplied in separate vials – offering maximum flexibility in preparation of reaction mixes for different applications	4×0.1ml 4×0.5ml 5×(4×0.2ml)
94903	dNTP set (100mM each)	100mM aqueous solutions of dATP, dTTP, dCTP and dGTP each supplied in separate vials – offering maximum flexibility in preparation of reaction mixes for different applications	4×0.25ml 4×1ml 4×5ml
72009	dATP (100mM)	100mM aqueous solution of dATP	0.2ml, 0.5ml
91474	dTTP (100mM)	100mM aqueous solution of dTTP	0.2ml, 0.5ml
19809	dCTP (100mM)	100mM aqueous solution of dCTP	0.2ml, 0.5ml
47435	dGTP (100mM)	100mM aqueous solution of dGTP	0.2ml, 0.5ml

## PCR Buffers & Other Solutions

**SRL BioLit™** also offers other reagents which are PCR accessories. The ready-to-use, highly optimized reagents are helpful to users and assist in reducing handling and pipetting errors and saving valuable time in its preparations. These reagents are already optimized with **SRL**'s Polymerases and ensure complete success.

## Synopsis for SRL's PCR Buffers & Other Solutions

Product Code	Product Name	Features	Pkg
61318	10× PCR Buffer with KCl (Mg <sup>2+</sup> free)	Reaction buffer free of MgCl <sub>2</sub> – for researchers who wish to optimize their PCR reaction components	4×1.25ml
41212	10× PCR Buffer with 15mM Mg <sup>2+</sup>	Reaction buffer with MgCl <sub>2</sub> – for standard PCR reactions	4×1.25ml
43386	10× PCR Buffer with Mg <sup>2+</sup> set	Six Reaction buffers with varying concentrations of MgCl <sub>2</sub> – for researchers who wish to vary their Mg <sup>2+</sup> concentration in PCR reaction	6×1.25ml
86687	25mM MgCl <sub>2</sub>	PCR component used by researchers who wish to vary their Mg <sup>2+</sup> concentration according to their PCR requirement	4×1.25ml
96370	Water, nuclease free	Molecular biology requirement Water, de-ionized and sterile	5×1ml, 100ml & 500ml
66886	DEPC-treated Water	Requirement for RNA experiments – Water de-ionized, diethylpyrocarbonate (DEPC) treated and sterile	100ml
20870	PCR enhancer	Used with DNA polymerases, a PCR co-solvent that facilitates efficient amplification of GC-rich sequences and remedies difficulties with problematic templates	0.5ml
52531	PCR Sample Preparation Solution	Solution used to prepare sample (tissues, hair, buccal swabs, bacterial cells, serum & virus) for PCR	50 preps & 200 preps

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