

2.5X Syber Green HOT START PCR-PREMIUM for Real Time PCR (Mg final Conc. 1.5 mM)

Cat No. 110172

DATA-SHEET

2.5X Syber green HOT START PCR-PREMIUM for Real-time PCR is an optimized, ready to use, mixture of Hot start *Taq* DNA Polymerase, PCR buffer, Syber green, MgCl₂ and dNTP's. This pre-mix contains all components for real-time PCR for syber green, except DNA template and primers. The mixture is suitable for amplification of most of the DNA templates in Real Time PCR with syber green chemistry. Tested for absence of endodeoxyribonucleases and exodeoxyribonucleases and **is also tested for amplification of a single gene copy.**

SPECIFICATIONS : Supplied as 2.5X, in liquid form so as to ensure that you can add your primers & Template DNA volumes to desired levels.

CONTENTS OF THE PACK :

2.5X Syber green HOT START PCR-PREMIUM for Real-time PCR 1 ml - 2 Vial (for 100 reactions of 50µl)
Mol. Grade water 1 ml - 1 Vial

In case of difficult templates, which even do not amplify with this premix, please contact us for Hot Start premix with special additives, which can amplify even very difficult targets. We also offer Custom optimization services for your difficult templates.

Mol. Grade water : Water is supplied in 1.0 ml quantity, which is RNase and DNase free. It is advisable to aliquot the Mol. Grade water.

STORAGE : Recommended storage is at -20°C.

DILUTION PROTOCOL FOR PCR :

Component	50 µl reaction Volume		25 µl reaction volume	
	Volume	Final Conc.	Volume	Final Conc.
2.5 X Syber Green HOT START PCR Premix	20 µl	1 X	10 µl	1 X
Forward primer	Variable	0.1-1 µM	Variable	0.1-1 µM
Reverse Primer	Variable	0.1-1 µM	Variable	0.1-1 µM
Template DNA	Variable	10pg-1 µg	Variable	10pg-1 µg
Sterile Deionized water.	Up to 50 µl	----	Up to 25 µl	----

Suggested cycling protocol :

Initial Denaturation : 95°C 10 minutes
Cycling: 95°C 20 secs
 Annealing 30 secs | 40 - 45 cycles.
 72°C Extension 30 secs
Final Extension : 72°C 5 minutes

For low Copies PCR reactions can be extended to 45 Cycles.

Data Acquisition: Acquire Data at Sybr Green or FAM Channel at 72°C.



Manufactured and Marketed By :

GENOME DIAGNOSTICS PVT. LTD.,
(An ISO 13485:2003 & ISO 9001:2000 Certified Company)

Up Mohal Naryal, Khasra No. 427, Opp. Divya Packers, Old Timber Depot Road,
Near sector 4, Parwanoo, Dist. Solan. H.P.

Email: genome24@rediffmail.com

Tel: 00 91 01792 234285, 234286

www.genome-diagnostics.com

www.genomediagnostics.co.in

www.genomediagnostics.in

www.diagnosticsgenome.com

Packing : The above PCR premix is available in convenient small packs as well as large packs for bulk users.

The pre-mix is supplied with an additional vial of DNase free water. Pre-mixes with various concentrations of MgCl₂ are also available as mentioned below. Generally 2.5mM Pre-mix is considered as universal, however for further optimization for your parameters you can try Premixes with other Concentrations of MgCl₂

PACK SIZE AVAILABLE :

Cat. No.	PRODUCT	PACK SIZE
110171	2.5X Syber green HOT START PCR-PREMIX 50 reactions of 50µl or 100 reactions of 25µl 1.5 mM final Mg at 1 X Conc.	1ml x 1 (50 rxns 50µl)
110172	2.5X Syber green HOT START PCR-PREMIX 100 reactions of 50µl or 200 reactions of 25µl 1.5 mM final Mg at 1 X Conc.	1ml x 2 (100 rxns 50µl)
110173	2.5X Syber green HOT START PCR-PREMIX 50 reactions of 50µl or 100 reactions of 25µl 2.5 mM final Mg at 1 X Conc.	1ml (50 rxns 50µl)
110174	2.5X Syber green HOT START PCR-PREMIX 100 reactions of 50µl or 200 reactions of 25µl 2.5 mM final Mg at 1 X Conc.	1ml x 2 (100 rxns 50µl)
110175	2.5X Syber green HOT START PCR-PREMIX 500 reactions of 50µl or 1000 reactions of 25µl 2.5 mM final Mg at 1 X Conc.	1ml x 10 (500 rxns 50µl)

NOTE : For research use only. Not for use in Diagnostic or therapeutic procedures.
Genome Diagnostics Pvt. Ltd., shall not in any event be liable for incidental or special damage of any kind resulting from any use except on applications.



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