

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

Cat No. 110174

### DATA-SHEET

2.5X Syber green HOT START PCR-PREMIX for Real-time PCR is an optimized, ready to use, mixture of Hot start *Taq* DNA Polymerase, PCR buffer, Syber green, MgCl<sub>2</sub> 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-PREMIX 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  
                                    72°C Extension        30 secs                      |                      40 –45 cycles.  
Final Extension :        72°C                      5 minutes

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

**Acquire Data at 72°C on FAM or Sybr Channel.**



Manufactured and Marketed By :

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

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**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 MgCl<sub>2</sub> 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 MgCl<sub>2</sub>

**PACK SIZE AVAILABLE :**

<b>Cat. No.</b>	<b>PRODUCT</b>	<b>PACK SIZE</b>
110171	<b>2.5X Syber green HOT START PCR-PREMIX</b> 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	<b>2.5X Syber green HOT START PCR-PREMIX</b> 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	<b>2.5X Syber green HOT START PCR-PREMIX</b> 50 reactions of 50µl or 100 reactions of 25µl 2.5 mM final Mg at 1 X Conc.	1ml (50 rxns 50µl)
110174	<b>2.5X Syber green HOT START PCR-PREMIX</b> 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	<b>2.5X Syber green HOT START PCR-PREMIX</b> 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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