

**X-AMP Syber Green 2.5X Single Tube RT/PCR-PREMIX – (Mg final conc. 1.5 mM)  
(cDNA Synthesis & subsequent PCR in the same tube)**

Cat No. 110222

**DATA-SHEET**

**2.5X Syber green single tube RT/PCR-PREMIX for Real-time PCR** is an optimized, stabilized ready to use RT/PCR mixture of RT enzyme, Hot Start *Taq* DNA Polymerase, RT/PCR buffer, MgCl<sub>2</sub> and dNTP's besides some additives for enhances amplifications except RNA template and primers. The 2.5X RT/PCR-premix contains all components for cDNA synthesis and subsequent PCR in a single tube. The mixture is suitable for amplification of most of the RNA templates. Tested for absence of endodeoxyribonucleases and exodeoxyribonucleases.

**SPECIFICATIONS** : Supplied as 2.5X in liquid form so as to ensure that you can add your primers and template RNA volumes to desired levels.

**CONTENTS OF THE PACK :**

2.5X Syber green single tube RT/PCR-PREMIX                      1 ml - 2 Vials (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 2.5X Syber green 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 SINGLE TUBE RT/PCR :**

Component	50 µl reaction Volume		25 µl reaction volume	
	Volume	Final Conc.	Volume	Final Conc.
X-AMP Syber Green 2.5X Single Tube RT/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 RNA	Variable	10pg-1 µg	Variable	10pg-1 µg
Sterile Deionized water	Up to 50 µl	----	Up to 25 µl	----

**Suggested cycling protocol :**

cDNA Synthesis	42°C	30 minutes	
Initial Denaturation :	95°C	5 minutes	
Cycling:	95°C	20 secs	40 –45 cycles.
	Annealing	30 secs	
	72°C extension	30 secs	
Final Extension :	72°C	5 minutes	

For cDNA synthesis, target specific primers can be used.

**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

Version : X-AMP-SG04/001

[www.genome-diagnostics.com](http://www.genome-diagnostics.com)

[www.genomediagnostics.in](http://www.genomediagnostics.in)

Tel.: 00 91 01792 234285,, 234286

[www.genomediagnostics.co.in](http://www.genomediagnostics.co.in)

[www.diagnosticsgenome.com](http://www.diagnosticsgenome.com)

**Packing :** The above RT/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 the 2.5 mM Pre-mix is considered as universal, however for further optimization for your parameters you can try Premixes with other Conc. of MgCl<sub>2</sub>

**PACK SIZE AVAILABLE :**

<b>Cat. No.</b>	<b>PRODUCT</b>	<b>PACK SIZE</b>
110221	<b>X-AMP Sybr Green 2.5X Single Tube RT/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)
110222	<b>X-AMP Sybr Green 2.5X Single Tube RT/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)
110223	<b>X-AMP Sybr Green 2.5X Single Tube RT/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)
110224	<b>X-AMP Sybr Green 2.5X Single Tube RT/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)
110225	<b>X-AMP Sybr Green 2.5X Single Tube RT/PCR-PREMIX :</b> 500 rxns 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.  
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[www.genome-diagnostics.com](http://www.genome-diagnostics.com)

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Tel:: 00 91 01792 234285,, 234286

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