

## 1.1x Pre-Aliquoted PCR Master Mix, 50µl Reaction

**Description:** The PCR Master Mix is a pre-aliquoted ready-to-use master mix. It is a convenient way of amplifying DNA fragments without the need to thaw individual components, reducing the risk of contamination and pipetting errors. The ThermoPrime Plus DNA Polymerase, dNTPs, reaction buffer and magnesium chloride are all present in the mix.

**Ordering Information:** Select the consumable type and size from Table 1 and MgCl<sub>2</sub> concentration from Table 2.

<b>Table 1:</b>		
<b>Cat. No.</b>	<b>Description</b>	<b>Quantity</b>
AM-266-4MM/a	0.2ml Thermo-Strips & Domed Caps	50µl x 12 strips of 8 tubes
AM-266-4MM/b	0.2ml Thermo-Strips & Domed Caps	50µl x 10 x 12 strips of 8 tubes
AM-337-4MM/a	Individual 0.2ml Domed Cap Thermo-Tubes	50µl x 96 tubes
AM-337-4MM/b	Individual 0.2ml Domed Cap Thermo-Tubes	50µl x 10 x 96 tubes
AM-350-4MM/a	Individual 0.5ml Flat Cap Thermo-Tubes	50µl x 96 tubes
AM-350-4MM/b	Individual 0.5ml Flat Cap Thermo-Tubes	50µl x 10 x 96 tubes
AM-489-4MM/a	Individual 0.5ml Domed Cap Thermo-Tubes	50µl x 96 tubes
AM-489-4MM/b	Individual 0.5ml Domed Cap Thermo-Tubes	50µl x 10 x 96 tubes
AM-600-4MM	0.2ml Thermo-Fast® 96 Plates	50µl x 5 plates of 96 wells
AM-620-4MM/a	Individual 0.2ml Flat Cap Thermo-Tubes	50µl x 96 tubes
AM-620-4MM/b	Individual 0.2ml Flat Cap Thermo-Tubes	50µl x 10 x 96 tubes
AM-700-4MM	0.2ml Low Profile Thermo-Fast® 96 Plates	50µl x 5 plates of 96 wells
AM-648-4MM	Thermo-Fast® 48 Plates (6 x 8wells)	50µl x 10 plates of 48 wells
AM-772-4MM/a	0.2ml Low Profile Thermo-Strips & Domed Caps	50µl x 12 strips of 8 tubes
AM-772-4MM/b	0.2ml Low Profile Thermo-Strips & Domed Caps	50µl x 10 x 12 strips of 8 tubes
AM-773-4MM/a	0.2ml Low Profile Thermo-Strips & Flat Caps	50µl x 12 strips of 8 tubes
AM-773-4MM/b	0.2ml Low Profile Thermo-Strips & Flat Caps	50µl x 10 x 12 strips of 8 tubes
AM-800-4MM	0.2ml Skirted Thermo-Fast® 96 Plates	50µl x 5 plates of 96 wells
AM-848-4MM/a	0.2ml Low Profile Thermo-Strips & Domed Caps	50µl x 8 strips of 12 tubes
AM-848-4MM/b	0.2ml Low Profile Thermo-Strips & Domed Caps	50µl x 10 x 8 strips of 12 tubes
AM-849-4MM/a	0.2ml Low Profile Thermo-Strips & Flat Caps	50µl x 8 strips of 12 tubes
AM-849-4MM/b	0.2ml Low Profile Thermo-Strips & Flat Caps	50µl x 10 x 8 strips of 12 tubes
AM-900-4MM	0.2ml Semi Skirted Thermo-Fast® 96 Plates	50µl x 5 plates of 96 wells
AM-990-4MM	0.2ml Ultra Rigid Semi Skirted Thermo-Fast® 96 Plates	50µl x 5 plates of 96 wells
AM-1000-4MM	0.2ml Ultra Rigid Skirted Thermo-Fast® 96 Plates	50µl x 5 plates of 96 wells
AM-1100-4MM	0.2ml Thermo-Fast® 96 PCR Detection Plate	50µl x 5 plates of 96 wells
AM-1300-4MM	Thermo-Fast® 96 Robotic PCR Plate, Capped	50µl x 10 plates of 96 wells
AM-1400-4MM	Thermo-Fast® 96 PCR Detection Plate Mark II, Capped	50µl x 10 plates of 96 wells
AM-1113-4MM/a	0.2ml Thermo-Strips with Domed Caps	50µl x 8 strips of 12 tubes
AM-1113-4MM/b	0.2ml Thermo-Strips with Domed Caps	50µl x 10 x 8 strips of 12 tubes
AM-1114-4MM/a	0.2ml Thermo-Strips with Flat Caps	50µl x 8 strips of 12 tubes
AM-1114-4MM/b	0.2ml Thermo-Strips with Flat Caps	50µl x 10 x 8 strips of 12 tubes

**Note:** MM denotes Magnesium Chloride concentration

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<b>Cat. No.</b>	<b>MgCl<sub>2</sub> Concentration</b>
AM-xxx-415	1.5mM
AM-xxx-420	2.0mM
AM-xxx-425	2.5mM
AM-xxx-430	3.0mM
AM-xxx-435	3.5mM
AM-xxx-440	4.0mM

**Note:** xxx denotes plastic consumable type

**Example:** **AM-337-425/a**  
**1.1x PCR Master Mix with 2.5mM MgCl<sub>2</sub> (Reaction Volume 50µl),**  
**Pre-aliquoted into 96 x 0.2ml Domed Cap Thermo-Tubes.**

**Kit Components:** Each well contains 45µl of a 1.1x working concentration PCR Master Mix. The addition of the template and primers (in a volume of 5µl) results in a final reaction volume of 50µl, containing:

1.25 units Thermopime Plus DNA Polymerase  
 75mM Tris-HCl (pH 8.8 at 25°C)  
 20mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>  
 MgCl<sub>2</sub> (see table)  
 0.01% (v/v) Tween® 20  
 0.2mM each of dATP, dCTP, dGTP, dTTP

Thermo-Fast® 96 plates are provided capped with Domed Cap Strips. An extra set of caps for application after the addition of template and primers are included with both plates and Thermo-Strips.

**Enzyme Source:** *Thermus aquaticus*

**Storage Conditions:** Store at -20°C until ready for use for up to 1 year. Shipped on ice.

**Associated Activities:** The enzyme has a 5' to 3' polymerisation-dependent exonuclease replacement activity but lacks a 3' to 5' exonuclease activity.

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