

1.1x Pre-Aliquoted PCR Master Mix, 25µl 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 MgCl₂ concentration from Table 2.

Cat. No.	Description	Quantity
AM-266-2MM/a	0.2ml Thermo-Strips & Domed Caps	25µl PCR x 12 strips of 8 tubes
AM-266-2MM/b	0.2ml Thermo-Strips & Domed Caps	25µl PCR x 10 x 12 strips of 8 tubes
AM-337-2MM/a	Individual 0.2ml Domed Cap Thermo-Tubes	25µl x 96 tubes
AM-337-2MM/b	Individual 0.2ml Domed Cap Thermo-Tubes	25µl x 10 x 96 tubes
AM-350-2MM/a	Individual 0.5ml Flat Cap Thermo-Tubes	25µl x 96 tubes
AM-350-2MM/b	Individual 0.5ml Flat Cap Thermo-Tubes	25µl x 10 x 96 tubes
AM-384-2MM	Thermo-Fast [®] 384 Plates	25µl x 10 plates of 384 wells
AM-489-2MM/a	Individual 0.5ml Domed Cap Thermo-Tubes	25µl x 96 tubes
AM-489-2MM/b	Individual 0.5ml Domed Cap Thermo-Tubes	25µl x 10 x 96 tubes
AM-600-2MM	0.2ml Thermo-Fast [®] 96 Plates	25µl x 10 plates of 96 wells
AM-620-2MM/a	Individual 0.2ml Flat Cap Thermo-Tubes	25µl x 96 tubes
AM-620-2MM/b	Individual 0.2ml Flat Cap Thermo-Tubes	25µl x 10 x 96 tubes
AM-700-2MM	0.2ml Low Profile Thermo-Fast [®] 96 Plates	25µl x 10 plates of 96 wells
AM-772-2MM/a	0.2ml Low Profile Thermo-Strips & Domed Caps	25µl PCR x 12 strips of 8 tubes
AM-772-2MM/b	0.2ml Low Profile Thermo-Strips & Domed Caps	25µl PCR x 10 x 12 strips of 8 tubes
AM-773-2MM/a	0.2ml Low Profile Thermo-Strips & Flat Caps	25µl PCR x 12 strips of 8 tubes
AM-773-2MM/b	0.2ml Low Profile Thermo-Strips & Flat Caps	25µl PCR x 10 x 12 strips of 8 tubes
AM-800-2MM	0.2ml Skirted Thermo-Fast [®] 96 Plates	25µl x 10 plates of 96 wells
AM-848-2MM/a	0.2ml Low Profile Thermo-Strips & Domed Caps	25µl PCR x 8 strips of 12 tubes
AM-848-2MM/b	0.2ml Low Profile Thermo-Strips & Domed Caps	25µl PCR x 10 x 8 strips of 12 tubes
AM-849-2MM/a	0.2ml Low Profile Thermo-Strips & Flat Caps	25µl PCR x 8 strips of 12 tubes
AM-849-2MM/b	0.2ml Low Profile Thermo-Strips & Flat Caps	25µl PCR x 10 x 8 strips of 12 tubes
AM-900-2MM	0.2ml Semi Skirted Thermo-Fast [®] 96 Plates	25µl x 10 plates of 96 wells
AM-937-2MM	Thermo-Fast [®] 384 Mark II Plates	25µl x 10 plates of 384 wells
AM-990-2MM	0.2ml Ultra Rigid Semi Skirted Thermo-Fast [®] 96 Plates	25µl x 10 plates of 96 wells
AM-1000-2MM	0.2ml Ultra Rigid Skirted Thermo-Fast [®] 96 Plates	25µl x 10 plates of 96 wells
AM-1100-2MM	0.2ml Thermo-Fast [®] 96 PCR Detection Plate	25µl x 10 plates of 96 wells
AM-1300-2MM	Thermo-Fast [®] 96 Robotic PCR Plate, Capped	25µl x 10 plates of 96 wells
AM-1400-2MM	Thermo-Fast [®] 96 PCR Detection Plate Mark II, Capped	25µl x 10 plates of 96 wells
AM-1111-2MM	Thermo-Fast [®] 384 Diamond PCR Plate	25µl x 10 plates of 384 wells
AM-1113-2MM/a	0.2ml Thermo-Strips with Domed Caps	25µl PCR x 8 strips of 12 tubes
AM-1113-2MM/b	0.2ml Thermo-Strips with Domed Caps	25µl PCR x 10 x 8 strips of 12 tubes
AM-1114-2MM/a	0.2ml Thermo-Strips with Flat Caps	25µl PCR x 8 strips of 12 tubes

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AM-1114-2MM/b	0.2ml Thermo-Strips with Flat Caps	25µl PCR x 10 x 8 strips of 12 tubes
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Note: MM denotes Magnesium Chloride concentration

Cat. No.	MgCl ₂ Concentration
AM-xxx-215	1.5mM
AM-xxx-220	2.0mM
AM-xxx-225	2.5mM
AM-xxx-230	3.0mM
AM-xxx-235	3.5mM
AM-xxx-240	4.0mM

Note: xxx denotes plastic consumable type

Example: **AM-337-225/a**
1.1x PCR Master Mix with 2.5mM MgCl₂ (Reaction Volume 25µl)
Pre-aliquoted into 96 x 0.2ml Domed Cap Thermo-Tubes

Kit Components: Each well contains 22.5µl of a 1.1x working concentration PCR Master Mix. The addition of the template and primers (in a volume of 2.5µl) results in a final reaction volume of 25µl, containing:

0.625 units Thermoprime Plus DNA Polymerase
 75mM Tris-HCl (pH 8.8 at 25°C)
 20mM (NH₄)₂SO₄
 MgCl₂ (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 is included with both plates and Thermo-Strips. Thermo-Fast[®] 384 plates are supplied heat sealed with Easy Peel (or Diamond Foil Seal for Diamond plates).

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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