Product Specification Summary

PCR Amplification & Analysis

Catalog Number	40-3053-10
Product Name	TMAC (Tetramethyl ammonium chloride) 100 mM; 1 mL
Size	1 mL
Description	PCR Additive
Component/Note	Chloride
Component/Note	Tetramethyl ammonium-

PCR additives Betaine, DMSO and formamide reduces the Tm and the complex secondary structure thus the duplex stability. Tetramethyl ammonium chloride (TMAC) increases the specificity of hybridization and increases the Tm. The use of TMAC is recommended in PCR conditions using degenerate primers.
These PCR additives and enhancing agents have been used to increase the yield, specificity and consistency of PCR reactions. These additives may have beneficial effects on some amplification and it is impossible to predict which agents will be useful in a particular context and therefore they must be empirically tested for each combination of template and primers. TMAC is used to reduce potential DNARNA mismatch and improve the stringency of hybridization reactions. It increases Tm and minimizes mis-pairing. TMAC is generally used at a final concentration of 15-100mM to eliminate nonspecific priming.

Scan the QR Code or visit the following links

Product Infomation http://www.genelink.com/geneprodsite/product.asp?p=1067

Product Manual http://www.genelink.com/Literature/ps/M40-3021-PCR_Additives_Ver5.2.pdf

Product MSDS http://www.genelink.com/Literature/ps/GL MSDS LONG-hazardous_TMAC_20230310.pdf

Related Products

Product	Catalog No	Size
Omni-Marker™ Universal unlabeled; 100 uL	40-3005-01	100 uL
Omni-Marker™ Universal unlabeled; 1 mL	40-3005-10	1 mL
Omni-Marker™ Low unlabeled; 500 uL	40-3006-05	500 uL
Loading buffer 5X BPB/XC non-denaturing; 1 mL	40-3002-10	1 mL
Loading Buffer 5X Orange G/XC non-denaturing; 1 mL	40-3004-10	1 mL
Loading Buffer 2X BPB/XC Denaturing for Sequencing; 1 mL	40-5027-10	1 mL
Omni-Clean™ Gel DNA Beads Purification System; 100 purification	40-4110-10	100 Purifications
Omni-Clean™ Gel DNA Beads Purification System; 500 purifications	40-4110-50	500 Purifications
Omni-Clean™ Gel DNA Spin Column Purification System; 100 purifications	40-4120-10	100 Purifications
Omni-Clean™ Gel DNA Spin Purification; 500 purifications	40-4120-50	500 Purifications
Omni-Clean™ DNA Concentration System; 100 purifications	40-4130-10	100 Purifications
Omni-Clean™ DNA Concentration System; 500 purifications	40-4130-50	500 Purifications
Omni-Clean™ DNA Spin Column Concentration System; 100 purification	40-4140-10	100 Purifications
Omni-Clean™ DNA Spin Column Concentration System; 500 purification	40-4140-50	500 Purifications
Taq DNA Polymerase 400 units 5 u/ul; 80 uL; 400 units	40-5200-40	400 each