

Product Specification Summary

PCR Amplification & Analysis



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|----------------|---------------------------------|
| Catalog Number | 40-3031-10 |
| Product Name | DMSO (Dimethyl sulfoxide); 1 mL |
| Size | 1 mL |
| Description | Dimethyl Sulfoxide |
| Component/Note | PCR Additive |

PCR additives Betaine, DMSO and formamide reduces the T_m and the complex secondary structure thus the duplex stability. Tetramethyl ammonium chloride (TMAC) actually increases the specificity of hybridization and increases the T_m . 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. DMSO (dimethyl sulfoxide) reduce secondary structure and is particularly useful for GC rich templates. DMSO at 2-10% may be necessary for amplification of some templates, however 10% DMSO can reduce Taq polymerase activity by up to 50% so it should not be used routinely.

Scan the QR Code or visit the following links

Product Information

<http://www.genelink.com/geneprodsite/product.asp?p=1066>



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_DMSO_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 |