

## Formamide (deionized), 500 mL

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<b>CATALOG NUMBER:</b>	S4117	<b>QUANTITY:</b>	500 mL
<b>LOT NUMBER:</b>			
<b>BACKGROUND:</b>	<p>This product is intended for use in hybridization applications for <i>in situ</i>, Southern, Northern, dot and slot blot analyses, and colony, plaque, and YAC screening. Formamide is used primarily as a component in probe hybridization solutions to promote probe hybridization specificity. It denatures nucleic acids by disrupting hydrogen bonds.</p> <p>Material Provided 500 mL of deionized formamide; triple distilled and packaged under nitrogen.</p>		
<b>APPLICATIONS:</b>	<p>Instructions for Use:</p> <p>Dilute formamide according to specific application requirements. Formamide concentrations of 45-50% are typically used in Southern and Northern analyses and a 50% or greater concentration for <i>in situ</i> hybridization techniques. In DNA to DNA hybridization, each 1% increase in formamide concentration lowers the <math>T_m</math> by 0.7%.</p>		
<b>QUALITY CONTROL:</b>	<p>Each lot of material is pre-filtered through a mixed-ion exchange resin to eliminate products of decomposition and residual metal cations. This filtering process guarantees that each lot has a final purity of greater than 99.5% and an adsorbance value of less than 0.05 adsorbance units at 280nm. Each lot then undergoes rigid quality control testing to insure that assay specifications are met prior to release.</p>		
<b>STORAGE/HANDLING:</b>	<p>Store at -20°C. Keep cap tightly closed after opening. It is recommended to aliquot and store -20°C. Formamide will degrade at room temperature.</p>		

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, *in vitro* diagnostic uses, *ex vivo* or *in vivo* therapeutic uses or any type of consumption or application to humans or animals.

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