


## RNA/DNA Stabilization Reagent for Blood/Bone Marrow

for cell lysis and stabilization of nucleic acids contained in blood or bone marrow

Cat. No. 11 934 317 001

<b>Principle</b>	<p>The purification of mRNA from blood or bone marrow requires two steps:</p> <ol style="list-style-type: none"> <li>1. Cells from fresh blood or bone marrow are lysed with RNA/DNA Stabilization Reagent for Blood/Bone Marrow, which contains guanidine isothiocyanate and detergent. The Stabilization Reagent inhibits nuclease activity to protect nucleic acids in the lysate from degradation.</li> <li>2. After lysis, total nucleic acids are purified with the mRNA Isolation Kit for Blood/Bone Marrow.</li> </ol> <p>The RNA/DNA Stabilization Reagent for Blood/Bone Marrow, described on this page, is used only for Step 1 of the procedure. The mRNA Isolation Kit for Blood/Bone Marrow, described on the following page, is used only for Step 2 of the procedure.</p>
<b>Starting material</b>	<ul style="list-style-type: none"> <li>● Anticoagulant-treated research samples (1.5 – 5.0 ml) of: <ul style="list-style-type: none"> <li>● Human blood</li> <li>● Human bone marrow aspirates</li> </ul> </li> </ul> <p> <i>The anticoagulant may be EDTA, citrate, or heparin.</i></p>
<b>Application</b>	<ul style="list-style-type: none"> <li>● Rapid stabilization of nucleic acids from human whole blood or bone marrow research samples</li> </ul>
<b>Time required</b>	<ul style="list-style-type: none"> <li>● Total time: &lt;5 min (for lysis of sample and stabilization of nucleic acids in lysate)</li> <li>● Hands-on time: &lt;5 min</li> </ul>
<b>Results</b>	<ul style="list-style-type: none"> <li>● Nucleic acids stabilized with the RNA/DNA Stabilization Reagent for Blood/Bone Marrow may be stored up to 1 year at –15 to –25°C, ≤1 day at 2 – 8°C, or ≤6 h at 20° – 25°C.</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>● <b>Immediately stabilizes</b> nucleic acids from freshly drawn blood or bone marrow, so that they can be stored for later analysis or transport to a central laboratory</li> <li>● <b>Protects</b> nucleic acids in the lysed sample from degradation by nucleases</li> </ul>

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