



**Instructions for Use: RoboticArmCheck™**

<b>Brand Name of Product</b>	RoboticArmCheck™
<b>Generic Name of Product</b>	Test for Residual Blood inside the channel of a robotic arm
<b>Product Code Number(s)</b>	RAC-001
<b>Intended Use</b>	To test for blood (hemoglobin) residue inside a robotic surgical arm prior to sterilization/disinfection process.
<b>Range of Applications for Product</b>	Robotic surgical arms with an internal channel that can accommodate a 1.75mm minimum diameter swab.
<b>Key specifications of product</b>	<ul style="list-style-type: none"> <li>MEASURING RANGE: The test kit can detect 0.1 µg of blood with a blue-green color change either on the swab and/or in the liquid.</li> <li>RAC-001 Tip size: 1.38mm</li> </ul>

<b>Shipping &amp; Storage</b>	
<b>Shipping Conditions &amp; Requirements</b>	
<b>Storage Conditions</b>	Store RoboticArmCheck™ in closed packaging in a cool place 2°C- 25°C. Keep away from light and heat. Do not allow to freeze.
<b>Packaging Conditions</b>	<ul style="list-style-type: none"> <li>12 single use tests</li> <li>Each test kit consists of:               <ul style="list-style-type: none"> <li>vial with solution A (transparent cap)</li> <li>vial B (green cap)</li> <li>swab</li> <li>sterile water vial</li> <li>scissors</li> </ul> </li> </ul>
<b>Shelf Life</b>	18 months from date of manufacturer. See package for expiration date.

<b>Instructions for Using Product</b>	
<b>Description of Use (s)</b>	To test for blood (hemoglobin) residue inside a Robotic Arm prior to sterilization/disinfection process.
<b>Preparation for Use</b>	<ol style="list-style-type: none"> <li>In case of refrigerated storage condition, let the test warm up to room temperature before use.</li> <li>Open the protective pouch of the RoboticArmCheck™ test kit.</li> <li>Included are:           <ol style="list-style-type: none"> <li>Solution vial (transparent cap)</li> <li>Vial B (green cap)</li> <li>collection swab, vial of sterile water and scissors</li> </ol> </li> <li>Keep test away from sunlight.</li> </ol>

<b>Diagrams (drawings, pictures):</b>		<p><b>Image is of a Positive Results From Right to Left</b></p>	
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<b>Steps for Use of Product</b>	<ol style="list-style-type: none"> <li>1. Open the test kit. Included are: Solution vial (transparent cap), vial (green cap), and wire with cotton swab at one end.</li> <li>2. Testing of the port “1” channel is done after cleaning and before the sterilization/disinfection process.</li> <li>3. Open the vial (B, green cap) and place the vial into the holder provided. Open the vial (A, transparent cap), and transfer the liquid into the vial (B, green cap).</li> <li>4. Moisten the swab with a drop of clean water. Do not use chlorinated water.</li> <li>5. Insert the swab end of the wire into the Port marked “1</li> <li>6. If there is any resistance to the swab, do not force the swab, and gently remove from the channel. This indicates the channel is not wide enough to accept the swab.</li> <li>7. If there is no resistance to the swab, push it all the way to the end of channel.</li> <li>8. Once of the end of the channel is reached, do not force the swab any further.</li> <li>9. Remove the swab from the channel.</li> <li>10. Cut the swab end off the wire with scissors directly into the vial. Do not touch the swab.</li> <li>11. Recap the activator vial and shake at least five times.</li> <li>12. The yellow color change after activation is a normal reaction and does not indicate residue.</li> <li>13. Check the swab over a period of 30 seconds for a color change to blue-green, which will indicate blood residues in the tested channel.</li> </ol>
<b>Interpretation of Results</b>	If the test solution and/or any surface area of the swab changes to blue/green within 30 seconds, indicates the presence of hemoglobin. The bluer and darker the color, the greater the amount of hemoglobin is present.
<b>Contraindications of Test Results</b>	Oxidizing agent like chlorine or hypochlorite (present in some disinfecting agents and detergents) will give a blue/green color change. In this case the test cannot be used to detect blood residues.
<b>Documentation</b>	Record test results on <a href="#">log sheet</a> located on hmark.com
<b>Special Warnings and Cautions</b>	<ul style="list-style-type: none"> <li>• Evaluate the result immediately after 30 seconds — late color changes are not valid.</li> <li>• If a positive result (blue-green) report that result immediately.</li> <li>• A positive result is proof of remaining blood residue in the tested area only and the device should be reprocessed.</li> </ul>
<b>Disposal</b>	Since it is possible that blood is present, it is recommended to dispose all components of the RoboticArmCheck™ test kit in a biohazard container.

<b>Reprocessing Instructions</b>	
<b>Point of use:</b>	
<b>Preparation for decontamination:</b>	
<b>Disassembly Instructions:</b>	
<b>Cleaning – Manual:</b>	
<b>Cleaning – Automated:</b>	
<b>Disinfection:</b>	
<b>Drying:</b>	
<b>Maintenance, inspection, and testing:</b>	
<b>Reassembly Instructions:</b>	
<b>Packaging:</b>	
<b>Sterilization:</b>	
<b>Storage:</b>	
<b>Additional Information:</b>	

<b>Related Healthmark Products</b>	Hemocheck™
<b>Other Product Support Documents</b>	Proformance Brochure, Proformance Price List, RoboticArmCheck™ Policy, RoboticArmCheck™ Specification Sheet, Instruction for Residual Soil Tests, Validation Study of Hemocheck™ and Endocheck™
<b>Reference Documents</b>	
<b>Customer Service contact:</b>	Healthmark Industries Company, Inc 33671 Doreka Fraser, MI 48026 1-586-774-7600 <a href="mailto:healthmark@hmark.com">healthmark@hmark.com</a>