

Biothreat 1 Screen Assay Card

Hybridization Probe Assays

This reagent kit is designed to test for three separate DNA targets—*Bacillus anthracis* Target 2 (Assay 1), *Ricin* Target 1 (Assay 2), and *Francisella tularensis* Target 1 (Assay 3)—from two unknown liquid or dry samples. These procedures are to be performed manually and have been simplified to reduce the risk of operator error. Note: The Ricin assay is for the detection of Ricin DNA from crude preparations of *Ricinus communis*.

⚠ WARNING: If the unknown sample to be tested is suspected to contain pathogen or toxin, it must be handled by trained personnel and treated as if it were highly poisonous or infectious throughout the sample purification procedure, the assay procedure, and when disposing of all waste materials that have come in contact with the suspected sample.

Kit PATH-ASY-0008—Contents

5 mL Reagent Grade Water (1)	5 mL Unknown Sample Bottles (2)	1 mL Syringes with Cannula Tips (4)
Sample Swab Pack (1)	Instruction Booklet (1)	Freeze-dried Reagents in a Foil Bag (1)
Transfer Pipettes Pack (1)	Loading Instructions Sticker (1)	

Note: A RAZOR® EX or RAZOR® instrument is required to run this assay.

Programming the Run Protocol

Before the sample is loaded into the pouch, verify that the run protocol for this test is loaded onto the instrument. If it is not and you are using a RAZOR, use the RAZOR desktop software to create the protocol and load it onto the instrument. Use the data in this card when creating the protocol for this particular test with the Protocol Wizard. For the RAZOR EX, you can load the protocol by scanning the square protocol bar code on the reagent box. If the bar code is damaged, use the generic bar codes that are located below. Times, temperatures, and results analyses are all included in the protocol bar code.

Loading Protocols for the RAZOR® EX

After the square protocol bar code has been scanned, scan the rectangular bar code on the pouch fitment. If the rectangular bar code is damaged, use the generic one below. **Note: You will only be able to use the generic bar code for one run. To re-use it, you have to delete the run.**

Note: Prepare sample before loading.

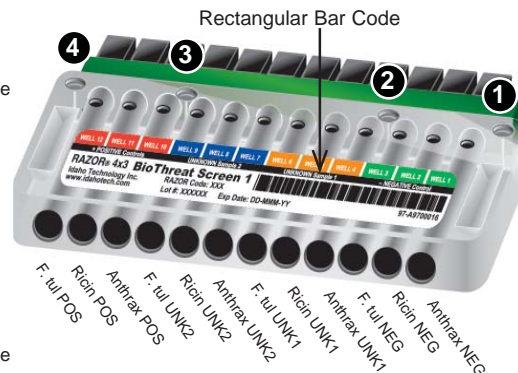


BIOTRT1B-BIO1B010



Kit Part Number: PATH-ASY-0008
Protocol Code: BIOTRT1B

- 1 Negative Port**
Add 0.5 mL reagent grade water
- 2 Unknown 1 Port**
Add 0.5 mL sample 1
- 3 Unknown 2 Port**
Add 0.5 mL sample 2
- 4 Positive Port**
Add 0.5 mL reagent grade water




PATH-PRT-0039 Rev.03



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Protocol Steps for the RAZOR®

Protocol Steps	Data to be Entered																																																																																				
Step 1: Protocol Identifier	Enter: 08H to identify this protocol. This identifying code matches the first three characters on the pouch. This will help you identify the protocol after it is loaded on the instrument.																																																																																				
Step 2: Protocol Parameters	Initial Hold Temperature: 93°C Denature Temperature: 91°C Anneal Temperature: 60°C																																																																																				
	Initial Hold Time: 120 s Denature Hold Time: 3 s Anneal Hold Time: 15 s																																																																																				
	Cycles: 55																																																																																				
Step 3: Select Organisms for the Protocol	A list of organisms is in the All Organisms column. Select Anthrax and click the Add button. Repeat this for Ricin and F. tul. All three will be added to the Organisms for this Protocol column. If Anthrax , Ricin , or F. tul. is not listed, see the <i>RAZOR Pouch Instruction Booklet</i> on how to add new organisms. Note: The target for Anthrax is Tar2, F. tul. is Tar1 and Ricin is Tar1.																																																																																				
Step 4: Add Environmental Samples	Add two unknown samples by clicking the Add button and entering UNK1 . Repeat the steps and enter UNK2 .																																																																																				
Step 5: Assign an Organism to Each Sample Position	Assign Anthrax to positions 1, 4, 7, and 10 . Assign Ricin to positions 2, 5, 8, and 11 . Assign F. tul to positions 3, 6, 9, and 12 .																																																																																				
Step 6: RAZOR Pouch Definition	Fill out the definition as shown in the image. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <table border="1"> <thead> <tr> <th colspan="6">Razor Bag Definition</th> </tr> <tr> <th>Pos</th> <th>Organism</th> <th>Target</th> <th>Type</th> <th>Env. Sample</th> <th>Concentration</th> </tr> </thead> <tbody> <tr><td>1</td><td>Anthrax</td><td>Tar2</td><td>NEG</td><td></td><td></td></tr> <tr><td>2</td><td>Ricin</td><td>Tar1</td><td>NEG</td><td></td><td></td></tr> <tr><td>3</td><td>F. tul</td><td>Tar1</td><td>NEG</td><td></td><td></td></tr> <tr><td>4</td><td>Anthrax</td><td>Tar2</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>5</td><td>Ricin</td><td>Tar1</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>6</td><td>F. tul</td><td>Tar1</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>7</td><td>Anthrax</td><td>Tar2</td><td>UNK</td><td>UNK2</td><td></td></tr> <tr><td>8</td><td>Ricin</td><td>Tar1</td><td>UNK</td><td>UNK2</td><td></td></tr> <tr><td>9</td><td>F. tul</td><td>Tar1</td><td>UNK</td><td>UNK2</td><td></td></tr> <tr><td>10</td><td>Anthrax</td><td>Tar2</td><td>POS</td><td></td><td></td></tr> <tr><td>11</td><td>Ricin</td><td>Tar1</td><td>POS</td><td></td><td></td></tr> <tr><td>12</td><td>F. tul</td><td>Tar1</td><td>POS</td><td></td><td></td></tr> </tbody> </table> </div>	Razor Bag Definition						Pos	Organism	Target	Type	Env. Sample	Concentration	1	Anthrax	Tar2	NEG			2	Ricin	Tar1	NEG			3	F. tul	Tar1	NEG			4	Anthrax	Tar2	UNK	UNK1		5	Ricin	Tar1	UNK	UNK1		6	F. tul	Tar1	UNK	UNK1		7	Anthrax	Tar2	UNK	UNK2		8	Ricin	Tar1	UNK	UNK2		9	F. tul	Tar1	UNK	UNK2		10	Anthrax	Tar2	POS			11	Ricin	Tar1	POS			12	F. tul	Tar1	POS		
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Step 7: RAZOR Metacalls	This step displays an image of the conditions required for an unknown to be called positive. You do not need to enter any data in this step. Click Finish to save the protocol.																																																																																				
NOTE:	Before interpreting results on machine's LED screen, remember assays correlate to the channels shown in diagram to right. <div style="text-align: right; margin-top: 10px;">  </div>																																																																																				