

# Simulant Training (The 10<sup>®</sup>) Assay Card

## Hybridization Probe Assays

This reagent kit is designed to test two assays from one unknown liquid or powder sample. These protocols are to be performed manually and have been simplified to reduce the risk of operator error.

**⚠ 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-0091

### Contents

Reagent Grade Water for Controls Bottle (1)	Unknown Sample Bottle (1)	Instruction Booklet (1)
Swab (1)	3 mL Syringes with Cannula Tips (2)	Freeze-dried Reagents in a Foil Bag (1)
Transfer Pipette (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, 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.

## RAZOR™ EX

### Loading Protocols

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. **💡 Notes:** You will only be able to use the generic bar code for one run. To re-use it, you have to delete the run. Prepare sample before loading.



SIMUL10A-SIMUL002

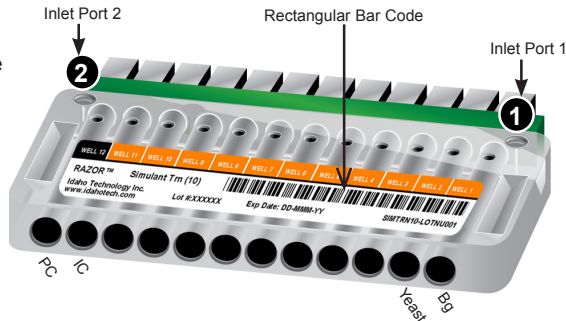


Kit Part Number: PATH-ASY-0091  
Protocol Code: SIMUL10A

**1** Inlet Port 1  
Load **2.0 mL**  
unknown sample  
with 3-mL  
syringe.\*

**2** Inlet Port 2  
Load **0.4 mL**  
control water  
from bottle with  
3-mL syringe.\*

**⚠ WARNING:** Do not depress syringe plunger, this may cause pouch failure.



# RAZOR™

## Loading Protocols

Protocol Steps	Data to be Entered																																																																														
<b>Step 1: Protocol Identifier</b>	Enter <b>SIM</b> 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.																																																																														
<b>Step 2: Protocol Parameters</b>	<table border="1"> <tr> <td>Initial Hold Temperature: <b>93°C</b></td> <td>Initial Hold Time: <b>120 sec</b></td> <td>Cycles: <b>55</b></td> </tr> <tr> <td>Denature Temperature: <b>91°C</b></td> <td>Denature Hold Time: <b>3 sec</b></td> <td></td> </tr> <tr> <td>Anneal Temperature: <b>60°C</b></td> <td>Anneal Hold Time: <b>15 sec</b></td> <td></td> </tr> </table>	Initial Hold Temperature: <b>93°C</b>	Initial Hold Time: <b>120 sec</b>	Cycles: <b>55</b>	Denature Temperature: <b>91°C</b>	Denature Hold Time: <b>3 sec</b>		Anneal Temperature: <b>60°C</b>	Anneal Hold Time: <b>15 sec</b>																																																																						
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<b>Step 3: Select Organisms for the Protocol</b>	A list of organisms are listed in the <b>All Organisms</b> column. Select <b>Bg</b> and click the <b>Add</b> button. Repeat for <b>Yeast, Blank, IC, and PC</b> . They will be added to the <b>Organism</b> column. If any are not listed, see the <i>RAZOR Pouch Instruction Booklet</i> for instructions on how to add new organisms. Note: The target for <b>Yeast, Blank, IC, and PC</b> is "Tar1"; <b>Bg</b> is "Tar2".																																																																														
<b>Step 4: Add Environmental Samples</b>	Add one unknown sample by clicking the <b>Add</b> button and entering <b>UNK1</b> .																																																																														
<b>Step 5: Assign an Organism to Each Sample Position</b>	Assign <b>Bg</b> to sample 1, <b>Yeast</b> to sample 2, <b>'Blank'</b> to samples 3–10, <b>IC</b> to sample 11, and <b>PC</b> to sample 12.																																																																														
<b>Step 6: RAZOR Pouch Definition</b>	Fill out the definition as shown in the image below. <div data-bbox="730 642 1171 970" data-label="Image"> <table border="1"> <caption>RAZOR Protocol Wizard (6 of 7)</caption> <thead> <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>Bg</td><td>Tar2</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>2</td><td>Yeast</td><td>Tar1</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>3</td><td>Blank</td><td>Tar1</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>4</td><td>Blank</td><td>Tar1</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>5</td><td>Blank</td><td>Tar1</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>6</td><td>Blank</td><td>Tar1</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>7</td><td>Blank</td><td>Tar1</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>8</td><td>Blank</td><td>Tar1</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>9</td><td>Blank</td><td>Tar1</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>10</td><td>Blank</td><td>Tar1</td><td>UNK</td><td>UNK1</td><td></td></tr> <tr><td>11</td><td>IC</td><td>Tar1</td><td>POS</td><td></td><td></td></tr> <tr><td>12</td><td>PC</td><td>Tar1</td><td>POS</td><td></td><td></td></tr> </tbody> </table> </div>	Pos	Organism	Target	Type	Env. Sample	Concentration	1	Bg	Tar2	UNK	UNK1		2	Yeast	Tar1	UNK	UNK1		3	Blank	Tar1	UNK	UNK1		4	Blank	Tar1	UNK	UNK1		5	Blank	Tar1	UNK	UNK1		6	Blank	Tar1	UNK	UNK1		7	Blank	Tar1	UNK	UNK1		8	Blank	Tar1	UNK	UNK1		9	Blank	Tar1	UNK	UNK1		10	Blank	Tar1	UNK	UNK1		11	IC	Tar1	POS			12	PC	Tar1	POS		
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<b>Step 7: RAZOR Metacalls</b>	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 <b>Finish</b> to save the protocol.																																																																														
<b>NOTE: Before defining results on machine's LED screen</b>	Remember assays correlate to the channels shown in diagram to right. <div data-bbox="756 1045 1171 1171" data-label="Image"> <p>Slot 12 Slot 11 Slot 10 Slot 9 Slot 8 Slot 7 Slot 6 Slot 5 Slot 4 Slot 3 Slot 2 Slot 1</p> <p>Call:+++ --- +++ --- NEXT PREV DONE</p> </div>																																																																														

