

## TaqMan® Protein Assays Buffer Kit Product Insert

Insert PN 4448578 Rev. A

### Kit part number

Part number	Kit
4448571	TaqMan® Protein Assays Buffer Kit

### Components and storage conditions

Part number	Component	Quantity	Storage conditions
4448579	Antibody Dilution Buffer	1 × 1 mL	-15 to -25 °C
4448582	Assay Probe Storage Buffer	1 × 1 mL	
4448585	Assay Probe Dilution Buffer	1 × 7 mL	
4448588	Lysate Dilution Buffer	1 × 25 mL	

When stored as recommended, this product maintains performance at least until the expiration date on the product label.

### Reagent characteristics

The TaqMan® Protein Assays Buffer Kit contains the buffers required to make assay probes and use them in TaqMan® Protein Assays experiments:

- Use the Antibody Dilution Buffer, 5' and 3' Prox-Oligos, Assay Probe Storage Buffer, and user-supplied biotinylated antibodies to make assay probes. The 5' and 3' Prox-Oligos are provided in the TaqMan® Protein Assays Oligo Probe Kit (PN 4448549).
- Use the Assay Probe Dilution Buffer to dilute the assay probes when preparing to run an assay.
- Use the Lysate Dilution Buffer to dilute lysate sample(s) when preparing to run an assay.

For more information on the TaqMan Protein Assays Buffer Kit or the TaqMan Protein Assays chemistry, refer to the *TaqMan® Protein Assays Probe Development Protocol* (PN 4449282), the *TaqMan® Protein Assays and Sample Prep Protocol* (PN 4449283), and the *Real-Time PCR Systems TaqMan® Protein Assays Chemistry Guide* (PN 4405780).

### Preparing assay probes using biotinylated antibodies

#### Prepare Antibody Dilution Buffer

1. Remove the Antibody Dilution Buffer from the freezer, then place the tube on ice and allow the solution to fully thaw.
2. Gently flick or invert the tube several times to mix the solution, then briefly centrifuge the tube.

3. In a reaction tube of sufficient volume, use the Antibody Dilution Buffer to dilute the biotinylated antibody to 200 nM (0.03 mg/mL).
4. Mix the solution gently by touch-vortex or by pipetting up and down 4 to 6 times, then spin the solution to the bottom of the tube.
5. Place the reaction tube on ice.

#### Prepare 5' and 3' Prox-Oligos



##### Note:

The Prox-Oligos are provided in the TaqMan® Protein Assays Oligo Probe Kit (PN 4448549)

1. Remove the 5' and 3' Prox-Oligos from the refrigerator, gently flick or invert the tubes several times to mix the solutions, then briefly centrifuge the tubes.
2. Label two separate 1.5-mL reaction tubes: **Assay Probe A** and **Assay Probe B**.
3. To the Assay Probe A tube, add 5 µL of the diluted biotinylated antibody (200 nM) and 5 µL of the 3' Prox-Oligo (200 nM).
4. To the Assay Probe B tube, add 5 µL of the diluted biotinylated antibody (200 nM) and 5 µL of the 5' Prox-Oligo (200 nM).
5. Mix the solution gently by touch-vortex or by pipetting up and down 4 to 6 times, then spin the solutions to the bottom of the tubes.
6. Incubate the tubes at room temperature for 60 minutes.

#### Prepare Assay Probe Storage Buffer

1. Remove the Assay Probe Storage Buffer from the freezer, then place the tube on ice for 5 minutes.
2. Gently flick or invert the tube several times to mix the solution, then briefly centrifuge the tube
3. To the Assay Probe A tube, add 90 µL of the Assay Probe Storage Buffer.
4. To the Assay Probe B tube, add 90 µL of the Assay Probe Storage Buffer.
5. Mix both solutions gently by touch-vortex or by pipetting up and down 4 to 6 times, then spin the solutions to the bottom of the tubes.
6. Incubate the tubes at room temperature for 20 minutes.
7. Store the Assay Probes at -20 °C.

## Preparing assay probes for use in TaqMan® Protein Assays

### Prepare Assay Probe Dilution Buffer

1. Remove the Assay Probe Dilution Buffer from the freezer, place the tube on ice and allow the solution to fully thaw, then briefly vortex the tube to mix the solution.
2. Remove the Assay Probe A and Assay Probe B tubes from the freezer, then gently flick the tubes to mix the solutions.
3. Briefly centrifuge all tubes.
4. In a reaction tube of sufficient volume, add the assay probes and buffer in the proportions shown below.

Component	Volume (µL)	
	1 reaction	1 plate (120 reactions)†
Assay Probe Dilution Buffer	1.8	216
Assay Probe A	0.1	12
Assay Probe B	0.1	12
<b>Total</b>	<b>2.0</b>	<b>240</b>

† Includes sufficient volume for one 96-well reaction plate, plus excess.

5. Place the reaction tube on ice; use within 15 minutes.

### Prepare Lysate Dilution Buffer

1. Remove the Lysate Dilution Buffer from the freezer, then place the tube on ice and allow the solution to fully thaw.
2. Gently flick or invert the tube several times to mix the solution, then briefly centrifuge the tube.
3. Refer to the *TaqMan® Protein Assays Probe Development Protocol* (PN 4449282) or the *TaqMan® Protein Assays and Sample Prep Protocol* (PN 4449283) for instructions on preparing lysates using the Lysate Dilution Buffer for the assay binding step.

## Safety information



### IMPORTANT!

For safety and biohazard guidelines, refer to the "Safety" section in the *TaqMan® Protein Assays Probe Development Protocol* (PN 4449282) and the *TaqMan® Protein Assays and Sample Prep Protocol* (PN 4449283).

### Obtaining SDSs

The Safety Data Sheet (SDS) for any chemical supplied by Applied Biosystems is available to you free 24 hours a day. To obtain SDSs:

1. Go to [www.appliedbiosystems.com](http://www.appliedbiosystems.com), click **Support**, then select **SDS**.
2. In the Keyword Search field, enter the chemical name, product name, SDS part number, or other information that appears in the SDS of interest. Select the language of your choice, then click **Search**.
3. Find the document of interest, right-click the document title, then select any of the following:
  - **Open** – To view the document
  - **Print Target** – To print the document
  - **Save Target As** – To download a PDF version of the document to a destination that you choose



### Note:

For the SDSs of chemicals not distributed by Applied Biosystems, contact the chemical manufacturer.

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