Qubit® Protein Assay Kits
For use with the Qubit® Fluorometer (all models)
Catalog nos. Q33211, Q33212

Table 1. Contents and storage

<table>
<thead>
<tr>
<th>Material</th>
<th>Amount</th>
<th>Concentration</th>
<th>Storage</th>
<th>Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qubit® Protein Reagent</td>
<td>300 µL</td>
<td>200X concentrate in 1,2-propanediol</td>
<td>• Room temperature</td>
<td>When stored as directed, kits are stable for 6 months.</td>
</tr>
<tr>
<td>(Component A)</td>
<td>1.5 mL</td>
<td></td>
<td>• Desiccate</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Protect from light</td>
<td></td>
</tr>
<tr>
<td>Qubit® Protein Buffer</td>
<td>60 mL</td>
<td>0 ng/µL in TE buffer with 2 mM sodium azide</td>
<td>Room temperature</td>
<td></td>
</tr>
<tr>
<td>(Component B)</td>
<td>300 mL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Qubit® Protein Standard #1</td>
<td>1 mL</td>
<td>200 ng/µL in TE buffer with 2 mM sodium azide</td>
<td>≤4°C</td>
<td></td>
</tr>
<tr>
<td>(Component C)</td>
<td>5 mL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Qubit® Protein Standard #2</td>
<td>1 mL</td>
<td>400 ng/µL in TE buffer with 2 mM sodium azide</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Component D)</td>
<td>5 mL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Qubit® Protein Standard #3</td>
<td>1 mL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Component E)</td>
<td>5 mL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Introduction

The Qubit® Protein Assay Kits make protein quantitation easy and accurate. The kits include concentrated assay reagent, dilution buffer, and prediluted BSA standards. Simply dilute the reagent using the buffer provided, add your sample (any volume from 1–20 µL is acceptable), then read the concentration using the Qubit® Fluorometer. The assay is accurate for initial sample concentrations from 12.5 µg/mL to 5 mg/mL and exhibits low protein-to-protein variation (Figure 1, page 6). The assay is performed at room temperature, and the signal is stable for 3 hours. Common contaminants such as reducing reagents (DTT, β-mercaptoethanol), salts, free nucleotides, amino acids, solvents, or DNA (but not detergents) are well tolerated in the assay; some very slight modifications for the procedure are required for other contaminants (Table 2, page 8). In addition to the Qubit® Protein Assay Kits described here, we also offer other kits for assaying dsDNA and RNA (Table 3, page 9).

Note: This Qubit® assay kit can be used with any Qubit® Fluorometer.

For Research Use Only. Not for use in diagnostic procedures.
Before You Begin

Materials required but not provided

- Plastic container (disposable) for mixing the Qubit® working solution (step 1.3, page 3)
- Qubit® assay tubes (500 tubes, Life Technologies, Cat. no. Q32856) or Axygen® PCR-05-C tubes (VWR, part no. 10011-830)

Storing the Qubit® assay kits

The Qubit® Protein Reagent and Buffer are designed for room temperature storage. Store the protein standards at 4°C.

Critical assay parameters

Assay temperature

The Qubit® Protein Assay delivers optimal performance when all solutions are at room temperature (22–28°C). The Qubit® assays are designed to be performed at room temperature, as temperature fluctuations can influence the accuracy of the assay (Figure 2, page 7). To minimize temperature fluctuations, store the Qubit® Protein Reagent and Buffer at room temperature and insert all assay tubes into the Qubit® Fluorometer only for as much time as it takes for the instrument to measure the fluorescence; the Qubit® Fluorometer can raise the temperature of the assay solution significantly, even over a period of a few minutes. Do not hold the assay tubes in your hand before reading because this warms the solution and results in a low reading.

Incubation time

To allow the Qubit® Protein Assay to reach optimal fluorescence, incubate the tubes for 15 minutes after mixing the sample or standard with the working solution. After this incubation period, the fluorescence signal is stable for 3 hours at room temperature. For the greatest accuracy of the Qubit® Protein Assay, the incubation time of the samples should be within 10 minutes of the incubation time of the standards.

Photobleaching of the Qubit® reagents

The Qubit® reagents exhibit high photostability in the Qubit® Fluorometer, showing <0.3% drop in fluorescence after 9 readings and <2.5% drop in fluorescence after 40 readings. However, if the assay tube remains in the Qubit® Fluorometer for multiple readings, a temporary reduction in fluorescence will be observed as the solution increases in temperature (Figure 2, page 7). Note that the temperature inside the Qubit® Fluorometer may be as much as 3°C above room temperature after 1 hour. For this reason, if you want to perform multiple readings of a single tube, remove the tube from the instrument and let it equilibrate to room temperature for 30 seconds before taking another reading.

Calibrating the Qubit® Fluorometer

For each assay, you have the choice to run a new calibration or use the values from the previous calibration. When you first use the instrument, perform a new calibration each time. As you become familiar with the assays, the instrument, your pipetting accuracy, and significant temperature fluctuations within your laboratory, you can decide how comfortable you are using the calibration data stored from the last time the instrument was calibrated. Additionally, remember that the fluorescence signal in the tubes containing standards and samples is stable for no longer than 3 hours. See Figure 3 (page 7) for an example of the calibration curve used to generate the quantification results.

Handling and disposal

No data are currently available that address the mutagenicity or toxicity of the Qubit® Protein Reagent (Component A). This reagent is an organic dye and is provided as a solution in 1,2-propanediol. Treat the Qubit® Protein Reagent with the same safety precautions as other materials with similar properties and dispose of the dye in accordance with local regulations.
Preparing samples and standards

This protocol assumes that you are preparing standards for calibrating the Qubit® Fluorometer. If you plan to use the last calibration performed on the instrument (see “Calibrating the Qubit® Fluorometer” on page 2), you need fewer tubes (step 1.1) and less working solution (step 1.3).

1.1 Set up the required number of 0.5-mL tubes for standards and samples. The Qubit® Protein Assay requires 3 standards.

   **Note:** Use only thin-wall, clear, 0.5-mL PCR tubes. Acceptable tubes include Qubit® assay tubes (Cat. no. Q32856) or Axygen® PCR-05-C tubes (part no. 10011-830).

1.2 Label the tube lids.

   **Note:** Do not label the side of the tube as this could interfere with the sample read. Label the lid of each standard tube correctly. Calibration of the Qubit® Fluorometer requires the standards to be inserted into the instrument in the right order.

1.3 Prepare the Qubit® working solution by diluting the Qubit® Protein Reagent 1:200 in Qubit® Protein Buffer. Use a clean plastic tube each time you prepare Qubit® working solution. **Do not mix the working solution in a glass container.**

   **Note:** The final volume in each tube must be 200 µL. Each standard tube requires 190 µL of Qubit® working solution, and each sample tube requires anywhere from 180–199 µL. Prepare sufficient Qubit® working solution to accommodate all standards and samples.

   For example, for 7 samples, prepare enough working solution for the samples and 3 standards: ~200 µL per tube in 10 tubes yields 2 mL of working solution (10 µL of Qubit® reagent plus 1990 µL of Qubit® buffer).

1.4 Add 190 µL of Qubit® working solution to each of the tubes used for standards.

1.5 Add 10 µL of each Qubit® standard to the appropriate tube, then mix by vortexing 2–3 seconds. Be careful not to create bubbles.

   **Note:** Careful pipetting is critical to ensure that exactly 10 µL of each Qubit® standard is added to 190 µL of Qubit® working solution.

1.6 Add Qubit® working solution to individual assay tubes so that the final volume in each tube after adding sample is 200 µL.

   **Note:** Your sample can be anywhere from 1–20 µL. Add a corresponding volume of Qubit® working solution to each assay tube: anywhere from 180–199 µL.

1.7 Add each sample to the assay tubes containing the correct volume of Qubit® working solution, then mix by vortexing 2–3 seconds. The final volume in each tube should be 200 µL.

1.8 Allow all tubes to incubate at room temperature for 15 minutes.

   Proceed to “Reading standards and samples”; follow the procedure appropriate for your instrument:

   - “Qubit® 3.0 Fluorometer” on page 4
   - “Qubit® 2.0 Fluorometer” on page 4
Reading standards and samples

Qubit® 3.0 Fluorometer

2.1 On the Home screen of the Qubit® 3.0 Fluorometer, press Protein. The “Read standards” screen is displayed. Press Read Standards to proceed.

Note: If you have already performed a calibration for the selected assay, the instrument prompts you to choose between reading new standards and running samples using the previous calibration. If you want to use the previous calibration, skip to step 2.5. Otherwise, continue with step 2.2.

2.2 Insert the tube containing Standard #1 into the sample chamber, close the lid, then press Read standard. When the reading is complete (~3 seconds), remove Standard #1.

2.3 Insert the tube containing Standard #2 into the sample chamber, close the lid, then press Read standard. When the reading is complete, remove Standard #2.

2.4 Insert the tube containing Standard #3 into the sample chamber, close the lid, then press Read standard. When the reading is complete, remove Standard #3.

The instrument displays the results on the Read standard screen. For information on interpreting the calibration results, refer to the Qubit® 3.0 Fluorometer User Guide.

2.5 Press Run samples.

2.6 On the assay screen, select the sample volume and units:

a. Press the + or – buttons on the wheel to select the sample volume added to the assay tube (from 1–20 μL).

b. From the dropdown menu, select the units for the output sample concentration.

2.7 Insert a sample tube into the sample chamber, close the lid, then press Read tube. When the reading is complete (~3 seconds), remove the sample tube.

The instrument displays the results on the assay screen. The top value (in large font) is the concentration of the original sample. The bottom value is the dilution concentration. For information on interpreting the sample results, refer to the Qubit® 3.0 Fluorometer User Guide.

2.8 Repeat step 2.7 until all samples have been read.

Qubit® 2.0 Fluorometer

3.1 On the Home screen of the Qubit® 2.0 Fluorometer, press Protein. The “Standards” screen is displayed.

Note: If you have already performed a calibration for the selected assay, the instrument prompts you to choose between reading new standards and running samples using the previous calibration. If you want to use the previous calibration, press No and skip to step 3.6. Otherwise, continue with step 3.2.

3.2 On the Standards screen, press Yes to read the standards.

3.3 Insert the tube containing Standard #1 into the sample chamber, close the lid, then press Read. When the reading is complete (~3 seconds), remove Standard #1.
3.4 Insert the tube containing Standard #2 into the sample chamber, close the lid, then press Read. When the reading is complete, remove Standard #2.

3.5 Insert the tube containing Standard #3 into the sample chamber, close the lid, then press Read. When the reading is complete, remove Standard #3.

When the calibration is complete, the instrument displays the Sample screen.

3.6 Insert a sample tube into the sample chamber, close the lid, then press Read. When the reading is complete (~3 seconds), remove the sample tube.

The instrument displays the results on the Sample screen. The value displayed corresponds to the concentration after your sample was diluted into the assay tube. To find the concentration of your original sample, you can record this value and perform the calculation yourself (see “Calculating the sample concentration” below) or the instrument can perform this calculation for you (see “Dilution Calculator”, below).

3.7 Repeat step 3.6 until all samples have been read.

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**Calculating the sample concentration – Qubit® 2.0 Fluorometer**

**Note:** The Qubit® 3.0 Fluorometer performs this calculation automatically.

The Qubit® 2.0 Fluorometer gives values for the Qubit® Protein Assay in μg/mL. This value corresponds to the concentration after your sample was diluted into the assay tube. To calculate the concentration of your sample, use the following equation:

\[
\text{Concentration of your sample} = \text{QF value} \times \frac{200}{x}
\]

where QF value = the value given by the Qubit® 2.0 Fluorometer

\[x = \text{the number of microliters of sample added to the assay tube}\]

This equation generates a result with the same units as the value given by the Qubit® 2.0 Fluorometer. For example, if the Qubit® 2.0 Fluorometer gave a concentration in μg/mL, the result of the equation is in μg/mL.

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**Dilution Calculator – Qubit® 2.0 Fluorometer**

The Dilution Calculator feature of the Qubit® 2.0 Fluorometer calculates the concentration of your original sample based on the volume of sample you added to the assay tube. To have the Qubit® 2.0 Fluorometer perform this calculation for you, follow the instruction below.

4.1 After the sample measurement is complete, press Calculate Stock Conc. The “Dilution Calculator” screen is displayed.

4.2 Using the volume roller wheel, select the volume of your original sample that you added to the assay tube. When you stop scrolling, the Qubit® 2.0 Fluorometer calculates the original sample concentration based on the measured assay concentration.
4.3 To change the units in which the original sample concentration is displayed:

a. Press $\mu$g/mL.

b. On the unit selection pop-up window, select a unit for your original sample concentration.

c. Touch anywhere on the screen to close the pop-up window. The Qubit® 2.0 Fluorometer automatically converts the units to your selection.

**Note:** The unit button next to your sample concentration reflects the change in units. For example, if you changed the unit to pg/μL, the button displays pg/μL.

4.4 To save the data from your calculation to the Qubit® 2.0 Fluorometer, press Save on the Dilution Calculator screen. The last calculated value of your measurement is saved in the *.csv file and tagged with a time and date stamp.

4.5 To exit the Dilution Calculator screen, press any navigator button on the bottom of the screen or press Read Next Sample.

**Note:** When you navigate away from the Dilution Calculator screen, the Qubit® 2.0 Fluorometer saves the last values for the sample volume and units on the Dilution Calculator screen only. Returning to the Dilution Calculator screen displays these last selected values.

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**Appendix**

Protein-to-protein variation of the Qubit® Protein Assay

![Graph showing protein-to-protein variation](image)

**Figure 1.** Low protein-to-protein variation in the Qubit® Protein Assay (Q33211, Q33212). Solutions of the following proteins were prepared, diluted, and assayed in the Qubit® Protein Assay: bovine serum albumin (BSA), chicken-egg ovalbumin, chicken-egg lysozyme, bovine-milk β-casein, equine myoglobin, bovine-milk α-casein, porcine pepsin, mouse immunoglobulin (IgG), and calf-thymus histone. Fluorescence was measured at 485/590 nm and plotted versus the mass of the protein sample. At 3 μg, the fluorescence variation was 12.4%, or 8.7% excluding the basic histone protein. Background fluorescence has not been subtracted.
Effect of temperature on the Qubit® Protein Assay

Figure 2. Plot of fluorescence vs. temperature for the Qubit® Protein Assay. The Qubit® assays are designed to be performed at room temperature, as temperature fluctuations can influence the accuracy of the assay.

How the Qubit® Fluorometer calculates concentration

Figure 3. The curve-fitting algorithm used to determine concentration in the Qubit® Protein Assay. The Qubit® Fluorometer generates concentration data based on the relationship between the three standards used in the calibration. This plot shows the line corresponding to the curve-fitting algorithm (a modified Hill plot) used in the calculation of concentration data for the Qubit® Protein Assay. For reference, the positions of the standards and a set of data points from an actual experiment are shown superimposed onto the line, demonstrating that the curve-fitting algorithm gives accurate values for quantitation.
Contaminants tolerated by the Qubit® Protein Assay

Table 2. Effect of contaminants in the Qubit® Protein Assay, tested over a range of 1.25–25 μg/mL

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Final concentration in the assay</th>
<th>Concentration in 20-μL sample</th>
<th>Concentration in 10-μL sample</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>20 mM</td>
<td>200 mM</td>
<td>400 mM</td>
<td>OK †</td>
</tr>
<tr>
<td>Magnesium chloride</td>
<td>2 mM</td>
<td>20 mM</td>
<td>40 mM</td>
<td>OK</td>
</tr>
<tr>
<td>Potassium chloride ‡</td>
<td>200 mM</td>
<td>200 mM</td>
<td>400 mM</td>
<td>OK</td>
</tr>
<tr>
<td>Calcium chloride ‡</td>
<td>2 mM</td>
<td>20 mM</td>
<td>40 mM</td>
<td>OK</td>
</tr>
<tr>
<td>Ammonium sulfate</td>
<td>5 mM</td>
<td>50 mM</td>
<td>100 mM</td>
<td>OK †</td>
</tr>
<tr>
<td>DTT</td>
<td>1 mM</td>
<td>10 mM</td>
<td>20 mM</td>
<td>OK †</td>
</tr>
<tr>
<td>B-Mercaptoethanol</td>
<td>1 mM</td>
<td>10 mM</td>
<td>20 mM</td>
<td>OK</td>
</tr>
<tr>
<td>EDTA</td>
<td>1 mM</td>
<td>10 mM</td>
<td>20 mM</td>
<td>OK</td>
</tr>
<tr>
<td>Sodium azide</td>
<td>1 mM</td>
<td>10 mM</td>
<td>20 mM</td>
<td>OK</td>
</tr>
<tr>
<td>HEPES, pH 7.4</td>
<td>5 mM</td>
<td>50 mM</td>
<td>100 mM</td>
<td>OK</td>
</tr>
<tr>
<td>Potassium phosphate, pH 7.4</td>
<td>5 mM</td>
<td>50 mM</td>
<td>100 mM</td>
<td>OK</td>
</tr>
<tr>
<td>PBS, pH 7.4</td>
<td>1 mM KPO₄, 15 mM NaCl</td>
<td>10 mM KPO₄, 150 mM NaCl</td>
<td>20 mM KPO₄, 300 mM NaCl</td>
<td>Protocol modification required ‡‡</td>
</tr>
<tr>
<td>Sucrose</td>
<td>50 mM</td>
<td>500 mM</td>
<td>1 M</td>
<td>OK</td>
</tr>
<tr>
<td>Sucrose</td>
<td>100 mM</td>
<td>1 M</td>
<td>2 M</td>
<td>NR</td>
</tr>
<tr>
<td>Glycerol</td>
<td>1%</td>
<td>10%</td>
<td>20%</td>
<td>OK †</td>
</tr>
<tr>
<td>Imidazole</td>
<td>1.25 mM</td>
<td>12.5 mM</td>
<td>25 mM</td>
<td>OK</td>
</tr>
<tr>
<td>SDS</td>
<td>0.01%</td>
<td>0.1%</td>
<td>0.2%</td>
<td>OK †</td>
</tr>
<tr>
<td>SDS</td>
<td>0.02%</td>
<td>0.2%</td>
<td>0.4%</td>
<td>NR</td>
</tr>
<tr>
<td>Tween® 20</td>
<td>0.001%</td>
<td>0.01%</td>
<td>0.02%</td>
<td>NR</td>
</tr>
<tr>
<td>Triton® X-100</td>
<td>0.001%</td>
<td>0.01%</td>
<td>0.02%</td>
<td>NR</td>
</tr>
<tr>
<td>Amino acids §</td>
<td>100 μg/mL</td>
<td>1 mg/mL</td>
<td>2 mg/mL</td>
<td>OK</td>
</tr>
<tr>
<td>dNTPs**</td>
<td>100 μM</td>
<td>1 mM</td>
<td>2 mM</td>
<td>OK †</td>
</tr>
<tr>
<td>DNA</td>
<td>5 μg/mL</td>
<td>50 μg/mL</td>
<td>100 μg/mL</td>
<td>OK †</td>
</tr>
<tr>
<td>DNA</td>
<td>10% ††</td>
<td>10% ††</td>
<td>10% ††</td>
<td>OK †</td>
</tr>
<tr>
<td>DNA</td>
<td>50% ††</td>
<td>50% ††</td>
<td>50% ††</td>
<td>NR</td>
</tr>
</tbody>
</table>

*BSA standards were assayed in the presence or absence of contaminants at the indicated final concentrations. Equivalent concentrations (approximate) in 20-μL or 10-μL sample volumes are also listed. Results are given as OK, usually less than 10% perturbation, or as NR (not recommended). † An acceptable result, but with some distortion of the standard curve. For best results, add the same amount of contaminant to the standard samples. ‡ A precipitate was observed. § A mixture of 19 amino acids. ** A mixture of dATP, dCTP, dGTP, and dTTP. †† For each data point, the DNA mass was a fixed percentage of the protein mass. ‡‡ For accurate results, add the same amount of PBS to the standard samples.
A number of fluorescence-based quantification kits are available for use with the Qubit® Fluorometer. Use Table 3, below, to choose a kit based on the target molecule being measured and the number of assays you require.

### Table 3. Qubit® assay kits for use with the Qubit® Fluorometer

<table>
<thead>
<tr>
<th>Product</th>
<th>Cat. no.</th>
<th>Number of assays*</th>
<th>Target</th>
<th>Notes</th>
</tr>
</thead>
</table>
| Qubit® dsDNA BR Assay Kit      | Q32850   | 100               | dsDNA    | • Core range (high confidence): 0.01 µg/mL to 5 µg/mL†  
• Extended range (moderate confidence): 5 µg/mL to 10 µg/mL†  
• Useful for quantitation of genomic and miniprep DNA samples  
• Accurate in the presence of RNA, salts, solvents, proteins, and free nucleotides |
|                                | Q32853   | 500               |          |                                                                                                                                                                                                      |
| Qubit® dsDNA HS Assay Kit      | Q32851   | 100               | dsDNA    | • Core range (high confidence): 1 ng/mL to 500 ng/mL†  
• Extended ranges (moderate confidence): 0.5 ng/mL to 1 ng/mL and 500 ng/mL to 600 ng/mL†  
• Useful for quantitation of PCR products, viral DNA, and samples for subcloning  
• Accurate in the presence of RNA, salts, solvents, proteins, and free nucleotides |
|                                | Q32854   | 500               |          |                                                                                                                                                                                                      |
| Qubit® ssDNA Assay Kit         | Q10212   | 100               | ssDNA    | • Core range (high confidence): 5 ng/mL to 1000 ng/mL†  
• Extended ranges (moderate confidence): 1 ng/mL to 5 ng/mL and 1000 ng/mL to 1200 ng/mL†  
• Useful for quantitation of oligos, primers, denatured DNA, PCR products  
• Accurate in the presence of salts, urea, solvents, proteins, ATP, and agarose |
| Qubit® RNA HS Assay Kit        | Q32852   | 100               | RNA      | • Core range (high confidence): 25 ng/mL to 500 ng/mL†  
• Extended ranges (moderate confidence): 20 ng/mL to 25 ng/mL and 500 ng/mL to 1000 ng/mL†  
• Useful for quantitation of samples for microarray, RT-PCR, and Northern blot procedures  
• Accurate in the presence of DNA, salts, solvents, proteins, and free nucleotides |
|                                | Q32855   | 500               |          |                                                                                                                                                                                                      |
| Qubit® RNA BR Assay Kit        | Q10210   | 100               | RNA      | • Core range (high confidence): 0.1 µg/mL to 5 µg/mL†  
• Extended ranges (moderate confidence): 0.05 µg/mL to 0.1 µg/mL and 5 µg/mL to 6 µg/mL†  
• Useful for quantitation of samples for microarray, RT-PCR, and Northern blot procedures  
• Accurate in the presence of DNA, salts, solvents, proteins, and free nucleotides |
|                                | Q10211   | 500               |          |                                                                                                                                                                                                      |
| Qubit® microRNA Assay Kit      | Q32880   | 100               | RNA      | • Core range (high confidence): 5 ng/mL to 500 ng/mL†  
• Extended ranges (moderate confidence): 2.5 ng/mL to 5 ng/mL and 500 ng/mL to 750 ng/mL†  
• Useful for quantification of samples for qRT-PCR and sequencing applications  
• Accurate in the presence of rRNA, large mRNA (>1000 bp), salts, solvents, proteins, and free nucleotides |
|                                | Q32881   | 500               |          |                                                                                                                                                                                                      |
| Qubit® Protein Assay Kit       | Q33211   | 100               | Protein  | • Core range (high confidence): 1.25 µg/mL to 25 µg/mL†  
• Extended ranges (moderate confidence): 1 µg/mL to 1.25 µg/mL and 25 µg/mL to 26 µg/mL†  
• Little protein-to-protein difference in signal  
• Accurate in the presence of DTT, β-mercaptoethanol, amino acids, and DNA  
• Signal is stable for 3 hours |
|                                | Q33212   | 500               |          |                                                                                                                                                                                                      |

*Based on an assay volume of 200 µL.
†Concentration ranges refer to the concentration of sample after dilution in the assay tube.
Product List  Current prices may be obtained from our website or from our Customer Service Department.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Product name</th>
<th>Unit size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q32850</td>
<td>Qubit® dsDNA BR Assay Kit, 100 assays <em>2–1000 ng</em> <em>for use with the Qubit® Fluorometer</em></td>
<td>1 kit</td>
</tr>
<tr>
<td>Q32853</td>
<td>Qubit® dsDNA BR Assay Kit 500 assays <em>2–1000 ng</em> <em>for use with the Qubit® Fluorometer</em></td>
<td>1 kit</td>
</tr>
<tr>
<td>Q32851</td>
<td>Qubit® dsDNA HS Assay Kit, 100 assays <em>0.2–100 ng</em> <em>for use with the Qubit® Fluorometer</em></td>
<td>1 kit</td>
</tr>
<tr>
<td>Q32854</td>
<td>Qubit® dsDNA HS Assay Kit, 500 assays <em>0.2–100 ng</em> <em>for use with the Qubit® Fluorometer</em></td>
<td>1 kit</td>
</tr>
<tr>
<td>Q10210</td>
<td>Qubit® RNA BR Assay Kit, 100 assays <em>20–1000 ng</em> <em>for use with the Qubit® Fluorometer</em></td>
<td>1 kit</td>
</tr>
<tr>
<td>Q10211</td>
<td>Qubit® RNA BR Assay Kit, 500 assays <em>20–1000 ng</em> <em>for use with the Qubit® Fluorometer</em></td>
<td>1 kit</td>
</tr>
<tr>
<td>Q32852</td>
<td>Qubit® RNA HS Assay Kit, 100 assays <em>5–100 ng</em> <em>for use with the Qubit® Fluorometer</em></td>
<td>1 kit</td>
</tr>
<tr>
<td>Q32855</td>
<td>Qubit® RNA HS Assay Kit, 500 assays <em>5–100 ng</em> <em>for use with the Qubit® Fluorometer</em></td>
<td>1 kit</td>
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<tr>
<td>Q10212</td>
<td>Qubit® ssDNA Assay Kit, 100 assays <em>1–200 ng</em> <em>for use with the Qubit® Fluorometer</em></td>
<td>1 kit</td>
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<td>Q32880</td>
<td>Qubit® microRNA Assay Kit, 100 assays <em>1–100 ng</em> <em>for use with the Qubit® Fluorometer</em></td>
<td>1 kit</td>
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<tr>
<td>Q32881</td>
<td>Qubit® microRNA Assay Kit, 500 assays <em>1–100 ng</em> <em>for use with the Qubit® Fluorometer</em></td>
<td>1 kit</td>
</tr>
<tr>
<td>Q32856</td>
<td>Qubit® assay tubes <em>set of 500</em></td>
<td>1 set</td>
</tr>
</tbody>
</table>

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