HTRF PHOSPHO-HISTONE H3 (THR3) DETECTION KITS

Part # 63ADK061PEG & 63ADK061PEH
Test Size#: 500 tests (63ADK061PEG), 10,000 tests (63ADK061PEH)
Revision: #07 of September 2023 Store at: ≤-60°C
For research use only. Not for use in diagnostic procedures.

ASSAY PRINCIPLE

This assay is intended for the simple, rapid and direct detection of endogenous levels of Histone H3 in cells, only when phosphorylated at Thr3. Upon activation, Histone H3 is phosphorylated and after lysis of the cell membrane, phospho-Histone H3 (Thr3) can be detected using the kit reagents.

As shown here, phospho-Histone H3 (Thr3) is detected in a sandwich assay format using 2 different specific antibodies, one labelled with Eu³⁺-Cryptate (donor) and the second with d2 (acceptor). One antibody is selected for its specific binding to the phosphorylated motif on the protein, the second for its ability to recognize the protein independently of its phosphorylation state.

When the dyes are in close proximity, the excitation of the donor with a light source (laser or flash lamp) triggers a Fluorescence Resonance Energy Transfer (FRET) towards the acceptor, which in turn fluoresces at a specific wavelength (665 nm). The specific signal modulates positively in proportion to phospho-Histone H3 (Thr3).

The assay can be run under a two-plate assay manual, where cells are plated, stimulated and lysed in the same culture plate. Lysates are then transferred to the assay plate for the detection of phospho-Histone H3 (Thr3) by HTRF® reagents. This manual gives the cells viability and confluence to be monitored. It can also be further streamlined to a one-plate assay manual. Detection of phospho-Histone H3 (Thr3) with HTRF® reagents is performed in a single plate used for plating, stimulation and detection. No washing steps are required. This manual, HTS designed, allows miniaturization while maintaining HTRF® quality.

For tissue derived samples, please refer to the technical note: “Optimize your htrf® cell signaling assays on tissues” on www.revvity.com
Technical support team can help you to set-up this manual or another one.
Please contact us at www.revvity.com

MANUAL AT A GLANCE

Figure 1: Principle of HTRF sandwich assay.
**TWO-PLATE ASSAY MANUAL FOR ADHERENT CELLS:**

1. **Add** 50 µL cells + 50 µL compounds to 96-well plate.
2. **Remove** supernatant.
3. **Lysis** with 50 µL supplemented lysis buffer (1X)*.
4. **Add** 4 µL HTRF® pre-mixed antibodies.
5. **Incubate** 2h at RT.
6. **Transfer** 16 µL supernatant.
7. **Read & analyse**.

**TWO-PLATE ASSAY MANUAL FOR SUSPENSION CELLS:**

1. **Add** 25 µL cells + 5 µL compounds + 10 µL supplemented lysis buffer (4X)* to 96-half well plate.
2. **Lysis** with 16 µL supplemented lysis buffer (4X)*.
3. **Add** 4 µL HTRF® pre-mixed antibodies.
4. **Incubate** 2h at RT.
5. **Transfer** 16 µL supernatant.
6. **Read & analyse**.

**ONE-PLATE ASSAY MANUAL:**

1. **Add** 8 µL cells + 4 µL compounds + 4 µL supplemented lysis buffer (4X) to small volume detection plate.
2. **Lysis** with 4 µL supplemented lysis buffer (4X).
3. **Add** 4 µL HTRF® pre-mixed antibodies.
4. **Incubate** 2h at RT.
5. **Read & analyse**.

* Depending on cell lines used, volume of lysis should be optimized. Depending on cell lines used, it can be necessary to dilute the cell lysate to ensure samples are within the assay linear range.

**FOR HTRF CERTIFIED READER**

For more information about HTRF® compatible readers and for set-up recommendations, please visit our website at: [www.revvity.com](http://www.revvity.com)
### MATERIALS PROVIDED:

<table>
<thead>
<tr>
<th>KIT COMPONENTS</th>
<th>STORAGE</th>
<th>500 TESTS CAT# 63ADK061PEG</th>
<th>10,000 TESTS CAT# 63ADK061PEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control lysate (ready-to-use)</td>
<td>≤-60°C</td>
<td>green cap 1 vial - 150 µL green cap</td>
<td>2 vials - 150 µL</td>
</tr>
<tr>
<td>Phospho-Histone H3 Eu Cryptate antibody</td>
<td>≤-16°C</td>
<td>red cap 1 vial - 50 µL red cap</td>
<td>1 vial - 1 mL</td>
</tr>
<tr>
<td>Phospho-Histone H3 d2 antibody</td>
<td>≤-16°C</td>
<td>blue cap 1 vial - 50 µL blue cap</td>
<td>1 vial - 1 mL</td>
</tr>
<tr>
<td>Blocking reagent* (stock solution 100X)</td>
<td>≤-16°C</td>
<td>purple cap 1 vial - 300 µL purple cap</td>
<td>3 vials - 2 mL</td>
</tr>
<tr>
<td>Lysis buffer* # 1 (stock solution 4X)</td>
<td>≤-16°C</td>
<td>transparent cap 4 vials - 2 mL</td>
<td>1 vial - 130 mL</td>
</tr>
<tr>
<td>Detection buffer** (ready-to-use)</td>
<td>≤-16°C</td>
<td>orange cap 2 vials - 2 mL red cap</td>
<td>1 vial - 50 mL</td>
</tr>
</tbody>
</table>

* Amounts of reagents provided are sufficient for generating 50 µL of cell lysate per well.
** The Detection Buffer is used to prepare working solutions of acceptor and donor reagents.

► **PURCHASE SEPARATELY**

96-well or 384-well small volume (SV) detection microplates - For more information about microplate recommendations, please visit our website at [www.revvity.com](http://www.revvity.com)

### STORAGE AND STABILITY

**Storage upon reception:**

Store the kit at ≤-60°C or below until the expiration date indicated on the package.

**Storage and stability of thawed material:**

When you are ready to use the kit, take the reagents out and prepare them following the manual provided in this document. Unused thawed reagents can be stored and conserved for future use. Refer to the table below for storage options and corresponding shelf life.

<table>
<thead>
<tr>
<th>STORING AFTER THAWING/RECONSTITUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lysis Buffer / Blocking Reagent / Detection buffer</td>
</tr>
<tr>
<td>Antibodies*</td>
</tr>
<tr>
<td>Protein/standard /Control Lysate*</td>
</tr>
</tbody>
</table>

*For Antibodies, Protein, Standard & control lysate, Stock solutions may be thawed and frozen only once. Freeze in aliquots to avoid multiple freeze/thaw cycles (once aliquoted, single use of the reagent). Volume of antibodies aliquots should not be under 10µL. Volume of Protein, Standard & control lysate aliquots should not be under 20µL.
Allow all reagents to thaw before use. We recommend centrifuging the vials gently after thawing, before pipeting the stock solutions. Prepare the working solutions from stock solutions by following the instructions below.

**TO PREPARE WORKING CONTROL LYSATE SOLUTION**

The control lysate is only provided as an internal assay control to check the quality of the results obtained. The window between control lysate and negative control should be greater than 2.

Thaw the control lysate. Mix gently, the control lysate is ready to use.

**TO PREPARE WORKING ANTIBODY SOLUTIONS:**

HTRF® reagent concentrations have been set for optimal assay performances. Note that any dilution or improper use of the d2 and Eu Cryptate-antibodies will impair the assay’s quality. Be careful, as working solution preparation for antibodies may differ between the 500 and 10,000 tests data point kit.

Antibody working solutions are stable for 2 days at 2-8°C. Dilute the antibodies with detection buffer. In practice:

<table>
<thead>
<tr>
<th>500 TESTS KIT 63ADK061PEG</th>
<th>10,000 TESTS KIT 63ADK061PEH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phospho-Histone H3 Eu Cryptate antibody</strong></td>
<td></td>
</tr>
<tr>
<td>1 volume</td>
<td>19 volumes</td>
</tr>
<tr>
<td>Eu Cryptate-antibody</td>
<td>detection buffer</td>
</tr>
<tr>
<td>Dilute 20-fold the frozen stock solution with detection buffer e.g add 0.95 ml of detection buffer to the 0.05 ml of Eu Cryptate-antibody stock solution.</td>
<td>Dilute 20-fold the frozen stock solution with detection buffer e.g add 19 ml of detection buffer to the 1 ml of Eu Cryptate-antibody stock solution.</td>
</tr>
<tr>
<td><strong>Phospho-Histone H3 d2 antibody</strong></td>
<td></td>
</tr>
<tr>
<td>1 volume</td>
<td>19 volumes</td>
</tr>
<tr>
<td>d2 antibody</td>
<td>detection buffer</td>
</tr>
<tr>
<td>Dilute 20-fold the frozen stock solution with detection buffer e.g add 0.95 ml of detection buffer to the 0.05 ml of d2-antibody stock solution.</td>
<td>Dilute 20-fold the frozen stock solution with detection buffer e.g add 19 ml of detection buffer to the 1 ml of d2-antibody stock solution.</td>
</tr>
</tbody>
</table>

It is possible to pre-mix the two ready-to-use antibody solutions just prior to dispensing the reagents by adding 1 volume of d2-antibody solution to 1 volume of Eu Cryptate-antibody solution.

It is possible to pre-mix the two ready-to-use antibody solutions just prior to dispensing the reagents by adding 1 volume of d2-antibody solution to 1 volume of Eu Cryptate-antibody solution.
TO PREPARE SUPPLEMENTED LYSIS BUFFER:
Make sure that the lysate has been generated by using the kit reagents. Supplemented lysis buffer differs between the manuals. Make sure to use the appropriate supplemented lysis buffer depending on the chosen manual's specification.
Prepare the required amount of supplement lysis buffer before running the assay, working solutions are stable for 2 days at 2-8°C.

► **Supplemented Lysis buffer 4X for two-plate assay manual on suspension cells & one-plate assay manual**
Determine the amount of supplemented lysis buffer needed for the experiment. Each well requires 4 μL of supplemented lysis buffer for one-plate assay manual and 10 μL for two-plate assay manual on suspension cells. Dilute the blocking reagent stock solution 25-fold with lysis buffer 4X. In practice:

<table>
<thead>
<tr>
<th>TWO-PLATE MANUAL ON SUSPENSION CELL &amp; ONE-PLATE ASSAY MANUAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 TESTS KIT 63ADK061PEG</td>
</tr>
<tr>
<td>Prepariation of Supplemented Lysis buffer 4X</td>
</tr>
<tr>
<td>1 volume Blocking reagent</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Dilute the “blocking reagent stock solution” 25-fold with “lysis buffer 4X” e.g. take 0.1 ml of “Blocking reagent stock solution” and add it to 2.4 ml of lysis buffer 4X. Mix gently.

► **Supplemented Lysis buffer 1X for two-plate assay manual on adherent cells**
Determine the amount of supplemented lysis buffer needed for the experiment. Each well requires generally 50 μL of supplemented lysis buffer. Prepare a lysis buffer solution 1X and then dilute the blocking reagent stock solution 100-fold with this lysis buffer 1X. In practice:

<table>
<thead>
<tr>
<th>TWO-PLATE ASSAY MANUAL ON ADHESIVE CELLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 TESTS KIT 63ADK061PEG &amp; 10,000 TESTS KIT 63ADK061PEH</td>
</tr>
<tr>
<td>Prepariation of lysis buffer 1X</td>
</tr>
<tr>
<td>1 volume lysis buffer 4X</td>
</tr>
<tr>
<td>3 volumes distilled water</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Dilute the “lysis buffer 4X” 4-fold with distilled water to prepare lysis buffer 1X. e.g. take 1.25 mL of lysis buffer 4X and add it to 3.75 mL of distilled water. Mix gently.

Dilute the “blocking reagent” 100-fold with “Lysis buffer 1X”. e.g. take 0.05 mL of “Blocking reagent stock solution” and add it to 4.95 mL of lysis buffer 1X. Mix gently.
GENERAL LAB WORK PRIOR USING REVIVITY KIT: CELLS PREPARATION

FOR ADHERENT CELLS

1. Plate 50 µL of cells in 96-well tissue-culture treated plate in appropriate growth medium and incubate overnight, at 37°C in CO2 atmosphere.
   - Cell seeding densities of 50 K cells/well are generally sufficient for most cell lines, but optimization of cell seeding densities is recommended. Depending on receptor a starving step with serum-free medium could be essential.

2. Dispense 50 µL of compound (2X) diluted in cell culture serum-free medium
   - Dispense 5 µL of compound (6X), diluted in your appropriate medium.

3. Remove carefully cell supernatant either by aspirating supernatant or by flicking the plate.
   - Do not remove your appropriate medium. Discard supernatant (for adherent cells).

PHOSPHO-HISTONE H3 DETECTION USING REVIVITY KIT

FOR ADHERENT CELLS

4. Immediately add 50 µL of supplemented lysis buffer (1X) and incubate for at least 30 minutes at room temperature under shaking.
   - Use the appropriate supplemented lysis buffer and incubate at room temperature with shaking. Lysis incubation time may be optimized. Lysis volume can be decreased down to 25 µL.

5. After homogenization by pipetting up and down, transfer 16 µL of cell lysate from the 96-well cell-culture plate to a small volume (SV) white detection plate.
   - Depending on cell lines used, it can be necessary to dilute the cell lysate to ensure samples are within the assay linear range.

6. Add 4 µL of premixed antibody solutions (vol/vol) prepared in the detection buffer.
   - Incubate 2h at room temperature. Maximum signal is reached after incubation time, and remains stable over a period of 24 hours. Therefore, readings can be made between 1 and 24h of incubation time.

   Set up your reader for Eu³⁺ Cryptate and read the fluorescence emission at two different wavelengths (665nm and 620nm) on a compatible HTRF® reader.

FOR SUSPENSION CELLS

4. Immediately add 10 µL of supplemented lysis buffer (4X) and incubate for at least 30 minutes at room temperature under shaking.

5. After homogenization by pipetting up and down, transfer 16 µL of cell lysate from the 96-well cell-culture plate to a small volume (SV) white detection plate.

6. Add 4 µL of premixed antibody solutions (vol/vol) prepared in the detection buffer.

   Cover the plate with a plate sealer. Incubate 2h at room temperature. Maximum signal is reached after incubation time, and remains stable over a period of 24 hours. Therefore, readings can be made between 1 and 24h of incubation time.

   Set up your reader for Eu³⁺ Cryptate and read the fluorescence emission at two different wavelengths (665nm and 620nm) on a compatible HTRF® reader.

Standard manual for two-plate assay manual in 20 µL final volume (after lysis step)

NON TREATED CELL LYSATE | TREATED CELL LYSATE | CONTROL LYSATE | NEGATIVE CONTROL
---|---|---|---
Dispense 16 µL of non treated cell lysate | Dispense 16 µL of treated cell lysate | Dispense 16 µL of control lysate | Dispense 16 µL of supplemented lysis buffer(1X)

Add 2 µL of Phospho-Histone H3 d2 antibody working solution to all wells

Add 2 µL of Phospho-Histone H3 Eu Cryptate antibody working solution to all wells

Cover the plate with a plate sealer. Incubate 2h at room temperature. Maximum signal is reached after incubation time, and remains stable over a period of 24 hours. Therefore, readings can be made between 1 and 24h of incubation time.

Remove the plate sealer and read on an HTRF compatible reader

The Negative control is used to check the non-specific signal. The ratio between control lysate signal / non-specific signal should be greater than 2.
ONE PLATE ASSAY
MANUAL

GENERAL LAB WORK PRIOR USING REVIVITY KIT: CELLS PREPARATION

1. Plate 8 μL of cells in a small volume (SV) white detection plate in your appropriate medium. Cell seeding densities of 16 K cells/well are generally sufficient for most cell lines, but optimization of cell seeding densities is recommended. Depending on receptor a starving step with serum-free medium can be included.

2. Dispense 4 μL of compounds (3X) diluted in your appropriate medium. For most compound, incubation time is between 10 and 30 minutes at 37°C. We recommend a time course study to determine the optimal stimulation time.

PHOSPHO-HISTONE H3 DETECTION USING REVIVITY KIT

3. Add 4 μL of supplemented lysis buffer (4X). Use the appropriate supplemented lysis buffer and incubate for at least 30 minutes at room temperature under shaking. Lysis incubation time may be optimized.

4. Add 4 μL of premixed antibody solutions (vol/vol) prepared in the detection buffer. Cover the plate with a plate sealer. Incubate 2h at room temperature. Maximum signal is reached after incubation time, and remains stable over a period of 24 hours. Therefore, readings can be made between 0 and 24h of incubation time. Set up your reader for Eu3+ Cryptate and read the fluorescence emission at two different wavelengths (665nm and 620nm) on a compatible HTRF® reader.

Standard manual for one-plate assay manual in 20 μL final volume

<table>
<thead>
<tr>
<th>NON TREATED CELL LYSATE</th>
<th>TREATED CELL LYSATE</th>
<th>NEGATIVE CONTROL</th>
<th>CONTROL LYSATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispense 8 μL of cells</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Add 4 μL of your appropriate medium</td>
<td>Add 4 μL of compound (3X)</td>
<td>Add 12 μL of your appropriate medium</td>
<td>Dispense 16 μL of control lysate</td>
</tr>
<tr>
<td>Add 4 μL of supplemented lysis buffer (4X) - 30 min/RT.</td>
<td>-</td>
<td>Add 2 μL of Phospho-Histone H3 d2 antibody solution to all wells</td>
<td></td>
</tr>
<tr>
<td>Add 2 μL of Phospho-Histone H3 Eu Cryptate antibody solution to all wells</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cover the plate with a plate sealer. Incubate 2h at room temperature. Maximum signal is reached after incubation time, and remains stable over a period of 24 hours. Therefore, readings can be made between 0 and 24h of incubation time.</td>
<td></td>
<td></td>
<td>Remove the plate sealer and read on an HTRF compatible reader</td>
</tr>
</tbody>
</table>

The Negative control is used to check the non-specific signal. The ratio between control lysate signal / non-specific signal should be greater than 2.
DATA REDUCTION & INTERPRETATION

1. Calculate the ratio of the acceptor and donor emission signals for each individual well.

\[
\text{Ratio} = \frac{\text{Signal } 665 \text{ nm}}{\text{Signal } 620 \text{ nm}} \times 10^4
\]

2. Calculate the % CVs. The mean and standard deviation can then be worked out from ratio replicates.

\[
\text{CV} (\%) = \frac{\text{Standard deviation}}{\text{Mean Ratio}} \times 100
\]

For more information about data reduction, please visit www.revvity.com

RESULTS

These data should be considered only as an example. Results may vary from one HTRF® compatible reader to another.
The curves are drawn up by plotting HTRF Ratio versus the log [compound] concentrations.
Results on HeLa cells (50,000 cells/well), using the two-plate assay manual for adherent cells.
Cells were treated with Calyculin A for 30 minutes and then lysed with 50 µL of supplemented lysis buffer #1 for 30 minutes at room temperature.

<table>
<thead>
<tr>
<th>[Calyculin A] (nM)</th>
<th>Log [Calyculin A] (M)</th>
<th>Mean HTRF Ratio</th>
<th>CV%</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>-9.5</td>
<td>899</td>
<td>3%</td>
</tr>
<tr>
<td>0.69</td>
<td>-9.2</td>
<td>1008</td>
<td>3%</td>
</tr>
<tr>
<td>2.1</td>
<td>-8.7</td>
<td>986</td>
<td>5%</td>
</tr>
<tr>
<td>6.2</td>
<td>-8.2</td>
<td>962</td>
<td>4%</td>
</tr>
<tr>
<td>18.5</td>
<td>-7.7</td>
<td>1105</td>
<td>4%</td>
</tr>
<tr>
<td>56</td>
<td>-7.3</td>
<td>7826</td>
<td>6%</td>
</tr>
<tr>
<td>167</td>
<td>-6.8</td>
<td>17381</td>
<td>7%</td>
</tr>
<tr>
<td>500</td>
<td>-6.3</td>
<td>19416</td>
<td>6%</td>
</tr>
<tr>
<td>Negative</td>
<td></td>
<td>627</td>
<td>2%</td>
</tr>
<tr>
<td>Control lysate</td>
<td></td>
<td>7534</td>
<td>2%</td>
</tr>
</tbody>
</table>

HeLa cells (50 Kc/well) + Calyculin A (30 min)

EC50 = 6.179e-008
S/B = 23
### GENERAL LAB WORK PRIOR USING REVIVITY KIT: CELLS AND LYSATE PREPARATION

#### FREQUENTLY ASKED QUESTIONS / TROUBLESHOOTING PARAMETERS

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using adherent cells, allow time for your cells to recover after plating</td>
<td>Allow cells to regain full signaling capacity by plating them at least 6 hours before starting the pharmacological treatment.</td>
</tr>
</tbody>
</table>
| Depending on the pathway, a serum starving step could be essential to reduce the basal level activity. This step should be optimized case-by-case. | Advice on cell culture conditions prior using Revvity kit:  
- For adherent cells  
  Before treating the cells with compounds, remove culture media from the plate and replace it with serum-free media before incubating from 2 hours up to overnight at 37°C.  
- For suspension cells  
  Starvation step should be carried out in the flask. Harvest cells by centrifugation and re-suspend cells at a suitable cell density in serum-free media, incubate from 2 hours up to overnight at 37°C. |
| Generation of lysates                                                    | Ensure that the lysates used for the assay have been generated by using the HTRF® lysis buffer supplemented with the HTRF® blocking reagent, provided in the kit. Lysates generated with HTRF® buffers can be used in other technologies, like Western-blot.  
  The blocking reagent contains only phosphatase inhibitors that prevent dephosphorylation of phosphorylated proteins from active serine/threonine and tyrosine phosphatases.  
  The lysis buffer is effective for creating cell extract under non denaturing conditions from both plated cells and cells pelleted from suspension cultures. |
| Using the two-plate assay manual, a low signal can often be improved by adjusting lysis volumes. | In most cases, a typical adherent cell line grown in 96-well plates is readily detected in a lysis volume of 50µL. However, the lysis volume can be adjusted from 25 µL to 200 µL. |
| Using an improper cell density can induce poor sensitivity and low signal  | Check that the cell density is correct. Too high or low cell numbers can affect assay performances |
| Parameters such as cell density, stimulation time and lysis incubation time should be optimized for each cell line used. | The assay can be used for many adherent and non-adherent cell types, including transfected cell lines and primary cells. However, the expression and phosphorylation of the readout can vary from one cell line to another. Depending on the type of treatment, and the temperature, the stimulation time can vary widely. Because of this, we recommend a time course study to determine the optimal compound incubation time.  
  Depending on the nature of your cells, lysis time may vary from 30' to 1h. Because of this, we also recommend determination of the optimal time. |
| Fluorescence reading                                                     | Using an inappropriate set-up may seriously impair the results. For information about HTRF® compatible readers and for set-up recommendations, please visit our website at: www.revvity.com |
| Assaying for multiple targets from a single lysate.                     | The two-plate assay manual indicates the use of 16µL of lysate per well, whereas the 96-well cell culture microplate would generate 50µL (or more) of lysate. Therefore, a typical cell lysate can be assayed for many targets, given that temporal and expression level constraints can vary from one target to another. |
| Batch production of cell lysates example of T175 flask                  | General lab work - prior using Phospho-Histone H3 Revvity kit:  
  Day1: Dispense 8 million cells in T175cm², add 25 mL of cell culture complete medium and incubate 2 days at 37°C, 5% CO2.  
  Day3: cell stimulation  
  Remove cell culture medium by aspiration, wash once (do not detach the cells), add 5 mL of agonist (1x) diluted in FCS free medium and incubate at 37 °C, 5% CO2, for the optimized time.  
  Day3: cell lysis  
  Remove stimulation medium, wash once (do not detach the cells), add 3 ml of 1X HTRF® lysis buffer supplemented with the HTRF® blocking reagent for 30 min at Room Temperature under orbital shaking. Transfer the cell lysate to a 15 mL vial, centrifuge 10 min, 2400 rcf at RT, recover cell lysate supernatant and store aliquots at -80°C or below. For long term conservation, aliquots should be stored in liquid nitrogen. |

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This product and/or some of its components include a Triton concentration of 0.1% or more and as such, it is concerned by the REACH European regulations. We recommend researchers using this product to act in compliance with REACH and in particular: to only use the product for in vitro research in appropriate and controlled premises by qualified researchers, ii) to ensure the collection and the treatment of subsequent waste, and iii) to make sure that the total amount of Triton handled does not exceed 1 ton per year.

This product contains material of biologic origin. Use for research purposes only. Do not use in humans or for diagnostic purposes. The purchaser assumes all risk and responsibility concerning reception, handling and storage.

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Manufactured by Cisbio Bioassays - Parc Marcel Boiteux - 30200 Codolet – FRANCE