Datasheet: BUF012A
BATCH NUMBER 240915

Product Details

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunofluorescence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Functional Assays</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Product Form

Liquid

Preservative Stabilisers

None present

Product Information

The cell proliferation assay reagent alamarBlue® is designed to provide a rapid and sensitive measure of cell proliferation and cytotoxicity in various human and animal cell lines, bacteria and fungi.

alarBlue® is an indicator dye, that incorporates an oxidation-reduction (REDOX) indicator that both fluoresces and changes colour in response to the chemical reduction of growth medium, resulting from cell growth. The alamarBlue® cell proliferation assay reagent is designed to quantitatively measure the proliferation of various human and animal cell lines, bacteria and fungi.

Some variability in the absorbance may occur between batches of AlamarBlue® but all batches should fall between 0.84 and 0.95AU when measured between 600nm and 602nm on a spectrophotometer.
For further information and Technical help about alamarBlue®, the cell proliferation assay reagent, please visit www.bio-rad-antibodies.com/alamarBlue
This site includes:
Frequently Asked Questions
Example calculations
Product-related references

Test Principle
Cell proliferation assay.
• Growing cells cause a chemical reduction of alamarBlue®.
• Continued growth maintains a reduced environment. (fluorescent, red).
• Inhibition of growth maintains an oxidized environment. (non-fluorescent, blue).
• Data may be collected using either fluorescence-based or absorbance-based instrumentation.
  • Fluorescence is monitored at 530-560nm excitation wavelength and 590nm emission wavelength.
  • Absorbance is monitored at 570nm and 600nm.

Intended Use
• Cell proliferation assays.
• The reagent can be used to establish proliferation or relative cytotoxicity in a cell proliferation assay.
• Baseline data for predicting the toxicity of related novel agents can be compared to baseline data with known in-vivo toxicity.
• alamarBlue® is for use between pH6.8 and pH7.4.

Instructions For Use
Instructions for use can be found at www.bio-rad-antibodies.com/uploads/IFU/BUF012A.pdf

References
7. Lau, L.I. et al. (2011) The Effect of Photooxidative Stress and Inflammatory Cytokine on
24. Santofimia-Castaño Patricia et al. (2014) Change in the Characteristics of
Ca2+ Signaling in Pancreatic Acinar Cells in Culture. The Open Access Journal of Science and Technology. 2: 1-12.


One. 11 (3): e0150567.

Further Reading

Storage
This product may be stored for 12 months at room temperature.
Store at 2-8°C to increase the shelf life to 20 months.
This product should be stored undiluted.
This product is photosensitive and should be protected from light.

Guarantee
12 months from date of despatch.

Acknowledgements

Health And Safety Information
Material Safety Datasheet documentation #10289 available at:
https://www.bio-rad-antibodies.com/SDS/BUF012A
10289

Regulatory
For research purposes only

Recommended Products
Recommended Useful Reagents
alamarBlue® (BUF012B)

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M275210:150922'

Printed on 22 Nov 2023