

## Datasheet: BUF049B

**BATCH NUMBER 165373**

<b>Description:</b>	HISPEC ASSAY DILUENT
<b>Name:</b>	HISPEC ASSAY DILUENT
<b>Format:</b>	Ready To Use
<b>Product Type:</b>	Accessory Reagent
<b>Clone:</b>	N/A
<b>Quantity:</b>	125 ml

## Product Details

### Applications

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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	■			
Immunoassay	■			

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.

<b>Product Form</b>	Ready to use assay diluent buffer.
<b>Preservative Stabilisers</b>	0.1% Proclin 300

<b>Intended Use</b>	<p>HISPEC assay diluent works to reduce cross reactivity, non-specific binding and matrix effects in immunoassays such as ELISA, EIA, Western blotting, immuno-PCR, protein arrays, multianalyte immunoassays and immunohistochemistry.</p> <p>The effect of HISPEC assay diluent is dependent on assay system and the antibodies used. HISPEC assay diluent is used instead of a sample buffer or antibody dilution buffer within the immunoassay protocol.</p> <p>HISPEC assay diluent is unsuitable for blocking of surfaces. For blocking of surfaces we recommend one of the blocking solutions within the Bio-Rad range – see “Useful reagents” below.</p>
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Examples of use:

ELISA: use as a dilution buffer for the specimen and for the detection antibodies

Western blotting: use as dilution buffer for primary and secondary antibodies

Immunohistochemistry: use as dilution buffer for primary and secondary antibodies

Protein arrays: use as dilution buffer for specimen and for the detection antibodies

<b>Instructions For Use</b>	<p>The buffer should be mixed thoroughly immediately before use.</p> <p>Dilution of the samples:</p> <p>The standards and samples for ELISA and protein arrays can be diluted with HISPEC assay diluent at 1:2 or higher. Standards and samples should be treated identically.</p> <p>Dilution of antibodies:</p> <p>Antibodies can be diluted with HISPEC assay diluent in a user-defined manner, depending on the recommendation of the antibody supplier.</p> <p>Expected results:</p> <p>In some cases a reduction in assay signal intensity may be observed when using HISPEC assay diluent. This does not result in a reduction in assay sensitivity due to the accompanying reduction in non-specific binding.</p> <p>Signal intensity may be increased in some assay systems by use of higher concentrations of antibodies, or by dilution of the HISPEC assay diluent in distilled water (1:2) prior to use. However, these adjustments may also result in some associated increase in non-specific binding.</p>
<b>References</b>	<ol style="list-style-type: none"><li>1. Eriksson, O. <i>et al.</i> (2018) Pancreatic imaging using an antibody fragment targeting the zinc transporter type 8: a direct comparison with radio-iodinated Exendin-4. <a href="#">Acta Diabetol. 55 (1): 49-57.</a></li><li>2. Yang, X. <i>et al.</i> (2022) Exploring the value of <i>Mycobacterium tuberculosis</i>. modified lipoprotein as a potential biomarker for TB detection in children. <a href="#">BMC Infect Dis. 22 (1): 158.</a></li></ol>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the product. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	<p>Guaranteed until date of expiry. Please see product label.</p>
<b>Acknowledgements</b>	<p>Proclin is a trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.</p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10265 available at: <a href="https://www.bio-rad-antibodies.com/SDS/BUF049B">https://www.bio-rad-antibodies.com/SDS/BUF049B</a></p> <p>10265</p>

## Related Products

### Recommended Useful Reagents

[ELISA BSA BLOCK \(BUF032A\)](#)

[ELISA ULTRABLOCK \(BUF033A\)](#)

[ELISA SYNBLOCK \(BUF034A\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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