

Datasheet: BUF049B

**BATCH NUMBER 152405**

|                      |                      |
|----------------------|----------------------|
| <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> |
|---------------------|--|

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

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|--------------------------------------|---|
| <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>                    | <p>1. Eriksson, O. <i>et al.</i> (2017) Pancreatic imaging using an antibody fragment targeting the zinc transporter type 8: a direct comparison with radio-iodinated Exendin-4. <a href="#">Acta Diabetol. Oct 24 [Epub ahead of print]</a>.</p>   |
| <b>Storage</b>                       | <p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing.</p>   |
| <b>Guarantee</b>                     | <p>Guaranteed until date of expiry. Please see product label.</p>   |
| <b>Acknowledgements</b>              | <p>Proclin™ 300 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>  |
| <b>Regulatory</b>                    | <p>For research purposes only</p>   |

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## Related Products

### Recommended Useful Reagents

[ELISA BSA BLOCK \(BUF032A\)](#)  
[ELISA ULTRABLOCK \(BUF033A\)](#)  
[ELISA SYNBLOCK \(BUF034A\)](#)

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|----------------------------------|---|------------------|---|---------------|---|
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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)  
'M350302:190307'

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