

## Datasheet: BUF049A

<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>	50 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
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<b>Preservative Stabilisers</b>	0.1% Proclin™ 300
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<b>Intended Use</b>	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.
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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.

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.

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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**Instructions For Use** The buffer should be mixed thoroughly immediately before use.  
Dilution of the samples:  
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.

Dilution of antibodies:  
Antibodies can be diluted with HISPEC assay diluent in a user-defined manner, depending on the recommendation of the antibody supplier.

Expected results:  
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.

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.

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**References**

1. Eriksson, O. *et al.* (2018) Pancreatic imaging using an antibody fragment targeting the zinc transporter type 8: a direct comparison with radio-iodinated Exendin-4. [Acta Diabetol. 55 \(1\): 49-57.](#)
2. Yang, X. *et al.* (2022) Exploring the value of *Mycobacterium tuberculosis*. modified lipoprotein as a potential biomarker for TB detection in children. [BMC Infect Dis. 22 \(1\): 158.](#)

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**Storage** 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.

Avoid repeated freezing and thawing as this may denature the product. Storage in frost-free freezers is not recommended.

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**Guarantee** Guaranteed until date of expiry. Please see product label.

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**Acknowledgements** Proclin™ 300 is a trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow.

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**Health And Safety Information** Material Safety Datasheet documentation #10265 available at: 10265: <https://www.bio-rad-antibodies.com/uploads/MSDS/10265.pdf>

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**Regulatory** For research purposes only

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## 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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