Datasheet: BUF049C

BATCH NUMBER 171987

Description:	HISPEC ASSAY DILUENT
Name:	HISPEC ASSAY DILUENT
Format:	Ready To Use
Product Type:	Accessory Reagent
Clone:	N/A
Quantity:	500 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.

	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.

Product Form

Ready to use assay diluent buffer.

Preservative Stabilisers

<0.0014% CMIT/MIT

Intended Use

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.

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
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.
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. 3. Hentrich, C. *et al.* (2024) Engineered reversible inhibition of SpyCatcher reactivity enables rapid generation of bispecific antibodies. Nat Commun. 15 (1): 5939.
Storage	This product is shipped at ambient temperature. Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Guarantee	Guaranteed until date of expiry. Please see product label.
Acknowledgements	ProClin is a trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow.
Health And Safety Information	Material Safety Datasheet documentation #10265 available at: https://www.bio-rad-antibodies.com/SDS/BUF049C
Regulatory	For research purposes only.

Related Products

Recommended Useful Reagents

ELISA BSA BLOCK (BUF032A)
ELISA ULTRABLOCK (BUF033A)
ELISA SYNBLOCK (BUF034A)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M444848:250728'

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