

## Datasheet: PHP239

**BATCH NUMBER 154441**

<b>Description:</b>	NATIVE HUMAN LACTOFERRIN
<b>Name:</b>	LACTOFERRIN
<b>Other names:</b>	LACTOTRANSFERRIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Purified Protein
<b>Quantity:</b>	5 mg

## 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	■			

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 the appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified protein from human milk - lyophilised
<b>Reconstitution</b>	Reconstitute with 5 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
<b>Preparation</b>	Purified by chromatography.
<b>Preservative Stabilisers</b>	None present

### External Database Links

#### UniProt:

[P02788](https://www.uniprot.org/entry/P02788)

[Related reagents](#)

#### Entrez Gene:

[4057](https://www.ncbi.nlm.nih.gov/gene/4057)

LTF

[Related reagents](#)

<b>Synonyms</b>	LF
<b>Product Information</b>	<p><b>Human lactoferrin</b> is a ~78 kDa globular protein found in body secretions such as milk and saliva and is a member of the transferrin family proteins. Transferrins control the level of free iron in the body, by binding and transporting iron. Lactoferrin does not appear to have a transporting function, instead it has antimicrobial activity, by keeping the levels of iron in body fluids low and thus preventing microbes from acquiring iron. Removing free iron from body fluids and inflamed areas also serve to protect against the damaging effects of free radicals.</p> <p>Lactoferrin is used as a therapeutic and prophylactic treatment of various illnesses, such as cancers and intestinal illnesses.</p>
<b>Purity</b>	~ 90% by Biuret method
<b>References</b>	<p>1. Wahl, A. <i>et al.</i> (2015) Breast Milk of HIV-Positive Mothers Has Potent and Species-Specific <i>In Vivo</i> HIV-Inhibitory Activity. <a href="#">J Virol. 89 (21): 10868-78.</a></p> <p>2. Yamashita, K. <i>et al.</i> (2017) Impact of a 7-Day Field Training on Oral Health Condition in Japan Ground Self-Defense Force Personnel. <a href="#">Mil Med. 182 (7): e1869-77.</a></p>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>DO NOT FREEZE. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10268 available at: <a href="https://www.bio-rad-antibodies.com/SDS/PHP23910268">https://www.bio-rad-antibodies.com/SDS/PHP23910268</a></p> <p>Donor material tested and found negative for HIV, HTLV, HCV and HBsAg.</p> <p>As no test can completely guarantee this material to be free of pathogens it should be handled as potentially infectious.</p>
<b>Regulatory</b>	For research purposes only

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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://www.bio-rad-antibodies.com/datasheets)  
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