

# Datasheet: BUF044A

**BATCH NUMBER 159011**

<b>Description:</b>	pNPP
<b>Name:</b>	pNPP
<b>Format:</b>	Ready To Use
<b>Product Type:</b>	Accessory Reagent
<b>Quantity:</b>	100 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	▪			Neat

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 - liquid
---------------------	-----------------------

<b>Preservative Stabilisers</b>	None present.
---------------------------------	---------------

<b>Intended Use</b>	BUF044A is a high performance p-nitrophenol phosphate (pNPP) solution, recommended for use in ELISA as a substrate for alkaline phosphatase (AP). In the presence of AP, pNPP is hydrolyzed rapidly to p-nitrophenol and inorganic phosphate to produce a yellow solution.
---------------------	--

This ready to use solution has been carefully formulated to increase pNPP activity and stability. BUF044A may be used for both kinetic and endpoint tests.

<b>Instructions For Use</b>	<ol style="list-style-type: none"> <li>1. Remove the pNPP substrate container from the refrigerator, and allow it to reach room temperature prior to use.</li> <li>2. Add 100ul of BUF044A per microtiter well. Development time is typically 15-30 minutes. Optimum time is determined by the user and will vary according to the procedure and the incubation temperature.</li> </ol>
-----------------------------	---

3. For kinetic tests, measure absorbance at 405nm. For endpoint tests, add 100ul 1.0M sodium hydroxide solution to each well and mix thoroughly prior to measuring absorbance at 405nm /650nm.

---

**Storage**

Store at +4°C. DO NOT FREEZE.

This product is photosensitive and should be protected from light.

Avoid exposure to light and heat

Store aliquots in bottles made of High Density Polyethylene (HDPE).

---

**Guarantee**

Guaranteed until date of expiry. Please see product label.

---

**Health And Safety  
Information**

Material Safety Datasheet documentation #10105 available at:  
<https://www.bio-rad-antibodies.com/SDS/BUF044A>  
10105

---

**Regulatory**

For research purposes only

---

**North & South  
America**

Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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)  
'M350299:190307'

**Printed on 29 Feb 2024**