

Datasheet: BUF044A

BATCH NUMBER 172480

Description:	pNPP
Name:	pNPP
Format:	Ready To Use
Product Type:	Accessory Reagent
Quantity:	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.

	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.

Product Form	Ready to use - liquid
---------------------	-----------------------

Preservative Stabilisers	None present.
---------------------------------	---------------

Intended Use	<p>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.</p>
---------------------	---

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.

Instructions For Use	<ol style="list-style-type: none"> 1. Remove the pNPP substrate container from the refrigerator, and allow it to reach room temperature prior to use. 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.
-----------------------------	---

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

This product is shipped at ambient temperature.

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>

Regulatory

For research purposes only

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

'M439304:250523'

Printed on 29 Jan 2026