

User Guide: PNP Substrate Buffer (5X)

ACC 00407 • Liquid Concentrate

Instructions

Prepare buffers fresh each day. Storing user-prepared 1X buffers for extended periods comes with risks such as precipitation, growth, or contamination which can have an effect on test performance. For those willing to assume this risk Agdia has recommended storage conditions and preservatives where possible.

Agdia's powdered and liquid concentrate buffers are designed, when made following their protocol, to have a pH within the approved range. Checking the pH of the buffers can serve as a procedural check, but is not required, simply recommended.

Handling Information

Components should be stored according to each product's label. All materials should be warmed to room temperature (18 - 30 °C) before use. For materials provided please see the product webpage.

Safety

Agdia recommends reading all relevant SDS sheets before using assay components: <http://docs.agdia.com/datasheets.aspx>.

PNP Substrate Buffer (1X)

1. PNP substrate buffer is used with PNP substrate tablets to make an active substrate for alkaline phosphatase ELISA systems.
2. PNP substrate buffer is provided as a two-component system, a 5X concentrate and 5 mg tablets; mix well before use.
3. Dilute 1 volume of 5X PNP substrate concentrate with 4 volumes of deionized or similar purity water before use.

Example: To prepare 10 mL of 1X PNP substrate buffer, mix 2 mL of 5X PNP substrate concentrate with 8 mL of water.

Do not add PNP substrate tablets until the day of testing.

4. **Optional:** Adjust the pH to the range of 9.7 to 9.9 with hydrochloric acid.
5. **Optional:** Store at 2 - 8 °C. Sodium azide is already present in buffer.

On the day of testing prepare PNP Substrate Solution:

1. Add 1 PNP substrate tablet per 5 mL of 1X PNP substrate buffer into a dedicated container.

Example: To prepare 10 mL of 1X PNP substrate solution, add 2 PNP substrate tablets to 10mL of 1X PNP substrate buffer.

2. Ensure tablets are dissolved before use.
3. Keep prepared 1X PNP solution in the dark prior to use.
4. Dispose of any remaining prepared PNP substrate at the end of the day.

Warranty

Agdia reagents are warranted for performance issues that arise from manufacturer defect. See product packaging for relevant expiration dates. Agdia's return policy can be found at www.agdia.com/customer-support/return-policy.

Additional Information

If you would like more information on how to run ELISA, please see Agdia's FAQ section, <http://www.agdia.com/customer-support/frequent-questions-and-troubleshooting>. For further documentation, including this user guide, please see Agdia's specific product webpages. For answers to your technical questions, please contact us at techsupport@agdia.com.



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m219.1
Revised: 03/04/2021
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