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› Exaxol B04706.00-20 Standard pH 6.00 Buffer 20L User Manual

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Model: B04706.00-20

1. INTRODUCTION AND PRODUCT OVERVIEW

The Exaxol B04706.00-20 is a high-quality, standard pH 6.00 buffer solution provided in a convenient 20-liter container. This product is designed for precise calibration of pH meters and electrodes, as well as for maintaining a stable pH in various laboratory and industrial applications. Manufactured in the United States, this buffer solution is traceable to NIST (National Institute of Standards and Technology) standards, ensuring accuracy and reliability for critical measurements. It is intended for laboratory use only and is classified as non-hazardous.



Figure 1: Exaxol Standard pH 6.00 Buffer in various packaging, including the 20L bag-in-box and smaller bottles. Labels indicate it is an aqueous standard solution, nonhazardous, and traceable to NIST, for laboratory use only.

2. SAFETY INFORMATION

While the Exaxol B04706.00-20 Standard pH 6.00 Buffer is classified as non-hazardous, it is essential to follow standard laboratory safety practices when handling any chemical solution. This product is for laboratory use only and is not intended for drug, food, or household use.

General Safety Precautions:

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when handling the buffer solution.
- Avoid direct contact with skin and eyes. In case of contact, rinse thoroughly with water.
- Do not ingest. If swallowed, seek medical attention immediately.
- Ensure adequate ventilation in the work area.
- Keep the container tightly sealed when not in use to prevent contamination.

3. WHAT'S IN THE BOX

Upon unpacking, you will find the following item:

- One (1) Exaxol B04706.00-20 Standard pH 6.00 Buffer, 20L container.

4. SETUP

The 20L buffer is supplied in a bag-in-box format for convenient dispensing.

Initial Setup:

1. Carefully open the outer cardboard box.
2. Locate the integrated dispenser tap.
3. Pull the dispenser tap out through the designated opening in the box. Ensure it is securely positioned for stable dispensing.
4. Place the box on a stable, flat surface, preferably at the edge of a bench or shelf, to allow for easy dispensing into a beaker or other container.
5. Ensure the 'THIS SIDE UP' marking on the box is correctly oriented to facilitate proper flow.



Figure 2: Exaxol 20L bag-in-box container with the integrated dispenser tap extended and ready for use. The 'THIS SIDE UP' label is visible, guiding correct orientation for dispensing.

5. OPERATING INSTRUCTIONS

This pH 6.00 buffer is primarily used for the calibration of pH meters and electrodes.

Dispensing the Buffer:

1. Position a clean, dry beaker or calibration vessel beneath the dispenser tap.
2. Gently push the tap lever to dispense the desired amount of buffer solution.
3. Release the lever to stop the flow. Ensure no drips occur after dispensing.

pH Meter Calibration:

1. Refer to your pH meter's specific instruction manual for its calibration procedure.
2. Typically, a two-point or three-point calibration is performed using buffers that bracket the expected sample pH. pH 6.00 is a common mid-range calibration point.
3. Rinse the pH electrode thoroughly with deionized water before and after immersing it in the buffer solution.
4. Immerse the electrode into a fresh aliquot of the Exaxol pH 6.00 buffer.
5. Allow the reading to stabilize according to your pH meter's instructions.
6. Adjust the meter to read pH 6.00 if manual adjustment is required, or allow the meter to automatically recognize and calibrate to the buffer.
7. Never return used buffer to the original container to prevent contamination.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your buffer solution.

- **Prevent Contamination:** Always dispense fresh buffer into a clean vessel. Never dip an electrode directly into the main 20L container, and never return used buffer to the container.
- **Seal Properly:** After dispensing, ensure the tap is fully closed and the container is sealed to prevent evaporation and contamination from airborne particles.
- **Check Expiry Date:** Note the expiry date printed on the packaging. Buffer solutions can degrade over time, leading to inaccurate pH readings.

7. TROUBLESHOOTING

If you encounter issues with your pH measurements or buffer performance, consider the following:

- **Inaccurate pH Readings:**
 - Ensure your pH meter and electrode are clean and properly maintained.
 - Verify that the buffer solution has not expired.
 - Check for signs of contamination in the buffer (e.g., cloudiness, particulate matter).
 - Perform a fresh calibration with new aliquots of buffer solutions.
- **Slow Electrode Response:**

- The electrode may need cleaning or rehydration. Refer to your electrode's manual.
- Ensure the temperature of the buffer matches the temperature setting on your pH meter.

8. SPECIFICATIONS

Attribute	Value
Product Name	Standard pH 6.00 Buffer
Brand	Exaxol
Model Number	B04706.00-20
Volume	20 Liters
pH Value	6.00
Traceability	NIST Traceable
Manufacturer	Exaxol
Country of Origin	United States
Package Dimensions	12 x 12 x 12 inches
Package Weight	50 Pounds

9. STORAGE AND DISPOSAL

Storage:

- Store the Exaxol B04706.00-20 buffer at room temperature (typically 15-30°C or 59-86°F).
- Keep the container tightly closed to prevent evaporation and contamination.
- Store in a dry place, away from direct sunlight or extreme temperatures.

Disposal:

As a non-hazardous aqueous solution, disposal should generally follow local regulations for laboratory waste. Consult your institution's or local authority's guidelines for the proper disposal of non-hazardous chemical solutions. Do not dispose of large quantities down the drain without prior approval.

10. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding the Exaxol B04706.00-20 Standard pH 6.00 Buffer, please contact Exaxol directly through their official website or customer service channels. Ensure you have your product model number and purchase details available when contacting support.

