

ESP+ (Environmental Sample Preservative)

Rev. 17.07

Storage Room Temperature



ESP+ Features

- ✓ **Fast and Simple** – it only takes a minute to collect and preserve a wastewater sample for molecular diagnostics testing applications
- ✓ **Safe & Non-Toxic** – no harsh or flammable chemicals
- ✓ **Ambient Temperature Storage & Shipping** – samples can be kept at room temperature for up to 2 weeks or shipped to the lab without ice or special packaging

Description

The ESP+ wastewater sample collection kit allows wastewater treatment plant operators to collect and preserve wastewater samples for molecular diagnostics testing. Molecular diagnostics tests do not require living microorganisms, but they do require high-quality DNA and RNA.

ESP+ is a safe, non-toxic solution that rapidly inactivates nucleases and stabilizes nucleic acids (DNA and RNA) in environmental samples. The samples can be stored at room temperature for up to two weeks, which allows the samples to be shipped to the analytical lab using standard, overnight delivery – no ice or special packaging required.

The ESP+ wastewater sample collection kit is designed for use with liquids such as activated sludge samples. For biofilm-based sampling (fixed films, MMBR, etc.), please contact us at info@asterbio.com.

Kit Contents

Item	Size	Cat. No.
ESP+ Sample Tubes	10 samples	ESP-10
	20 samples	ESP-20
	30 samples	ESP-30
Sterile Transfer Pipettes – 10, 20 or 30, as appropriate		
Identification Labels – 10, 20 or 30, as appropriate		

Special Sampling Requirements

Molecular diagnostics testing is extremely sensitive to contaminants. Therefore, operators must take care to avoid sample contamination that may confuse test results.

- A clean pair of new, non-powdered, disposable gloves should be donned immediately prior to sampling
- Take care to avoid contaminating the transfer pipette, sample tube cap or the mouth of the sample tube
- When filling the sample tube, do not touch the tube sides
- Do not save or re-use transfer pipettes

Instructions for Use

Each sample tube contains 12.5 ml of ESP+. To collect a sample:

1. Fill out and apply the identification label to the tube. Either use a pencil or waterproof pen.
2. Don a pair of new, non-powdered, disposable gloves (straight from the box), touching the outside surface as little as possible.
3. With a fresh, sterile transfer pipette, transfer wastewater from the activated sludge unit (or other relevant location) directly into the sample tube until the tube is full (~2.5 ml of sample).
4. Re-cap the tube.
5. Mix thoroughly by shaking for 20-30 seconds.
6. Ship the tube to Aster Bio as soon as practical for analysis.

Notes

1. This kit is intended to preserve wastewater samples with typical mixed liquor suspended solids of 2,500 to 10,000 ppm. If outside of this range, please contact us.
2. Shipping samples does not require ice or insulation; however, the samples should be shipped in a box to prevent damage to the samples during transit.

Safety

Aster Bio, Inc.

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Please see Safety Data Sheet. Always wear personal protective equipment – safety glasses and gloves.