

ESP+ (Environmental Sample Preservative)

Rev. 18.04

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 months 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 months, 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.

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 sample tube cap or the mouth of the sample tube
- When filling the sample tube, do not touch the tube sides

Instructions for Use

Each sample tube contains 4 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, disposable pipet, transfer wastewater from the activated sludge unit (or other relevant location) directly into the sample tube to bring the volume up to the top edge of the white label (2 ml of sample, final volume 6 ml). Alternatively, if you are collecting the sample using a bottle, you can slowly pour a small amount from the bottle into the sample collection tube.
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.

WE ONLY NEED ONE TUBE PER SAMPLE

Notes

1. This kit is intended to preserve wastewater samples with typical mixed liquor suspended solids. If you have a low-biomass sample, please contact us for suggestions.
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.
3. Please make sure the tubes are well sealed to prevent leakage during shipping. You can wrap the cap/tube with electricians tape if you like.

Safety

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

To Return Samples to Lab

Ship sample tubes to:

Aster Bio, Inc.
Attn: Paul Campbell
3733 Westheimer Rd.
Ste. 1 # 20
Houston, TX 77027

Phone: (832) 605-3951 (if shipper requires)