

## *BioCapt Single Use Microbial Impactor and the Environment*

**Summary:** The BioCapt Single Use (BCSU) is by nature a one-time use item that is then disposed of. With the increased focus on sustainability and Particle Measuring Systems' commitment to Net Zero, how does this product fit in?

### **Response**

Sustainability requires looking at the entire lifecycle of products. In this case, the BCSU replaces needed agar plates, meets EU GMP Annex 1 continuous monitoring requirements, and helps ensure the safety of patient solutions.

**1. 20% More Plastic, and 8x Less Plastic**

When we first designed the Single Use concept, one of our primary goals was to reduce the total burden on a facility, including waste and energy cycles and balancing these two elements. The BioCapt Single Use has approximately 20% more plastic than a traditional agar plate. However, this is offset by the ability to continuously monitor within Grade A environments (current Annex 1 requirement) for up to 4 hours, which is 8x more than a traditional plate taking only 1m<sup>3</sup> samples, so there is a net reduction in traditional plastic waste by up to 80%.

**2. False Positives Essentially Eliminated = Less Waste**

The unique product design and packaging results in false positives essentially eliminated. This means that less product (plates, packaging, media, and pharmaceutical items) and time is wasted.

**3. No Wipes or Disinfectants Needed**

The BCSU is the combination of the agar plate and the impactor, we avoid the use of wipes and disinfectant that are necessary when the traditional impactor in stainless steel is used we a strong reduction of waste to be discharged

**4. No Refrigeration Needed**

The BioCapt Single Use is stored at room temperature for 12 months, reducing refrigerator space and energy consumption.

**5. No Autoclaving Needed**

As this is disposable, no autoclaving is used which means a decrease in water and energy usage.

**6. Packaging**

In 2022 we redesigned the BCSU shipping packaging, eliminating all polystyrene and replacing with an effective, curbside recyclable cardboard.



For more information about the BioCapt Single Use Microbial Impactor, please [visit our website](#) or contact your local sales rep.

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