

## INSTRUCTIONS FOR USE

### INTENDED USE

Ceres Nanotrap<sup>®</sup> Microbiome B Particles are intended for use in capturing and concentrating intact microorganisms and associated viral nucleic acids contained in samples for use in downstream isolation and/or analysis. These particles have a broad affinity for a variety of microorganisms, including bacteria and viruses.

### SUMMARY AND PRINCIPLES

Nanotrap Microbiome B Particles utilize a unique hydrogel polymer coupled to affinity bait to attract, capture, and concentrate intact organisms and particles present in low abundance in many sample types. The microbes captured by these Nanotrap particles can be used in downstream nucleic acid extraction, purification, and analysis. Nanotrap Microbiome B particles are compatible with many commercial nucleic acid extraction kits or can be used without a nucleic acid extraction kit.

### PRECAUTIONS

1. **For Research Use Only. Not for use in diagnostic procedures.**
2. Nanotrap Microbiome B Particles and Enhancement Reagents are for Research Use Only. Not for use in diagnostic procedures.
3. SDS can be obtained at [streck.com](http://streck.com), by calling 800-843-0912 or by calling your local supplier.

### STORAGE AND STABILITY

1. Nanotrap Microbiome B Particles and Enhancement Reagents should be stored at 2 °C to 25 °C. **DO NOT FREEZE.**
2. When stored at the proper temperature range, product contents are stable through the expiration date.

### INDICATIONS OF PRODUCT DETERIORATION

1. If Nanotrap Microbiome B Particles have previously been frozen, large visible aggregates may form once the material is thawed. If aggregates are present, product should not be used.
2. If frozen, **DO NOT USE.**

### MICROORGANISM CAPTURE PROTOCOL

Please refer to the protocols listed on [streck.com](http://streck.com) for specific microbe capture and concentration instructions optimized for different extraction and purification methodologies.

#### Example Manual Microorganism Capture Protocol for Wastewater Samples

1. Invert the wastewater bottle 5 times to mix. After mixing, let it sit on a flat surface for 45 seconds at room temperature.
2. Pipette 10ml of wastewater sample from the wastewater bottle into a clean 15ml conical tube.
3. **Optional Step:** To each sample add 100µl of Nanotrap Enhancement Reagent 3 (ER3), vortex for several seconds to mix thoroughly.
  - a. **Note:** Using ER3 improves viral detection by 1-2 Ct values when used with Nanotrap Microbiome B Particles, but it is ok to skip addition of ER and proceed to step 4.
4. Add 150µl of Nanotrap Microbiome B Particles to the sample. Put the cap onto the tube and invert 2-3 times to mix the particles.
5. Incubate samples with Nanotrap Microbiome B Particles at room temperature for 10 minutes. Invert 2-3 times to mix the particles at the 5-minute mark.
6. Use the magnetic rack that is compatible with the 15ml tube to separate the Nanotrap Microbiome B Particles from the sample.
7. Using a pipette, discard the supernatant carefully without disturbing the Nanotrap Microbiome B Particles pellet.
8. Add 1ml of molecular grade water to the tube and re-suspend the Nanotrap Microbiome B Particles pellet using a pipette.
9. Transfer the Nanotrap Microbiome B Particles and the molecular grade water to a clean 2.0ml microcentrifuge tube for easier handling.
10. Use the magnetic rack that is compatible with the 2.0ml tube to separate the Nanotrap Microbiome B Particles from the sample.
11. Using a pipette, discard the supernatant carefully without disturbing the pellet.
12. If any small amount of liquid is still present, use a smaller pipette to remove all the supernatant from the bottom of the tube.
13. Continue sample processing with microbial nucleic acid extraction kit specific procedure.

Automated Capture protocols are platform specific. Automated protocols can be found at [streck.com/products/molecular](http://streck.com/products/molecular).

### ORDERING INFORMATION

Please call our Customer Service Department at 800-228-6090 for assistance. Additional information can be found online at [streck.com](http://streck.com).

### TECHNICAL SUPPORT

Please contact Streck Technical Services at +1-402-691-7510 (outside the United States and Canada), 800-843-0912 (United States and Canada) or [technicalservices@streck.com](mailto:technicalservices@streck.com). Report any serious incident to Streck, Inc. and appropriate regulatory entities as applicable.

### GLOSSARY OF SYMBOLS

See the Instructions (IFU) tab under Resources on the product page at [streck.com](http://streck.com).

See [streck.com/patents](http://streck.com/patents) for patents that may be applicable to this product.



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2022-11