Ascorbic-EDTA Buffer

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Abstract

For use in Wet-mount Method for Enumeration of Aquatic Viruses

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Guidelines

Note: An alternative Ascorbate-EDTA Buffer can be made with MgCl2 and Na2EDTA if Mg2EDTA is unavailable:
- Combine equal parts of 0.125 M Tris-base, 0.1 M Na2-EDTA dihydrate, 0.2 M MgCl2 hexahydrate, and 0.2 M ascorbic acid, adjust with 10 N NaOH to reach a pH of 6-7.
- 0.125 M Tris-base prepared by dissolving 0.151 g Tris-base in 10 mL ultrapure water
- 0.1 M Na2-EDTA dehydrate prepared by dissolving 0.372 g Na2- EDTA dehydrate in 10 mL ultrapure water
- 0.2 M MgCl2 hexahydrate prepared by dissolving 0.407 g MgCl2 hexahydrate in 10 mL ultrapure water
- 0.2 M ascorbic acid prepared by dissolving 0.352 g ascorbic acid in 10 mL ultrapure water

Protocol

Step 1.
Combine equal parts of 0.4 M Mg2EDTA and 0.8 M ascorbic acid, adjust with 10 N NaOH to reach a pH of 6-7.

Step 2.
Prepare fresh within 48 hours of use