EPPS recipe for dissolved cobalt analyses

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Abstract

This is a protocol for making a trace metal clean 0.5 mol L^{-1} EPPS (N-(2-hydroxyethyl)piperazine-N-(3-propanesulfonic acid) solution for dissolved cobalt analyses.

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Materials

- MilliQ water by Contributed by users
- Chelex-100 resin by Contributed by users
- N-(2-hydroxyethyl)piperazine-N-(3-propanesulfonic acid) by Contributed by users

Protocol

Dissolved cobalt analyses

Step 1.
Weigh out 22 g of EPPS directly into a 200 mL trace metal clean bottle.

Dissolved cobalt analyses

Step 2.
Add 173 mL of Milli-Q to the bottle by weight using an analytical balance.

Dissolved cobalt analyses

Step 3.
Make sure the EPPS is fully dissolved, and then pass the EPPS solution through an HPLC column packed with Chelex-100 resin into a trace metal clean bottle.