

# Cobalt standard reagent for dissolved cobalt analyses

Randie Bundy

## Abstract

This protocol describes how to make a 5 nmol L<sup>-1</sup> cobalt standard for measuring dissolved cobalt by cathodic stripping voltammetry.

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## Materials

- ✓ MilliQ water by Contributed by users
- ✓ AA Cobalt Standard 1 mg/L by Contributed by users

## Protocol

### Dissolved cobalt analyses

#### Step 1.

Rinse a 100 mL volumetric flask (that has been cleaned with 10% hydrochloric acid cabinet) with pH 2 Milli-Q 3 times and Milli-Q 3 times.

### Dissolved cobalt analyses

#### Step 2.

Fill the flask part way with Milli-Q and add 29.5 µl of the cobalt AA standard (1 mg L<sup>-1</sup>) to the Milli-Q. The final concentration will be 5 nmol L<sup>-1</sup>.

### Dissolved cobalt analyses

#### Step 3.

Carefully fill up to 100 mL Milli-Q using a squirt bottle and invert to mix. Save a small aliquot in a 5 mL clean bottle for a potential run later on the ICP-MS.