

# Certificate of Analysis

**United States Pharmacopoeia**

**Cobaltous Chloride CS (USP)**

Product No:  
Lot No:  
Expiry Date:

USPCS103  
EPRS21A1  
28/01/2025

Composition:  
Date of Test:

59.4 g/l  
08/02/2021

**Assay Limits:**

58.9g/l- 60.1g/l Cobalt (II) Chloride 6 Hydrate

This product complies with the current USP requirements.

**Preparation:**

Cobaltous Chloride CS-Dissolve about 65 g of cobaltous chloride ( $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$ ) in enough of a mixture of 25 mL of hydrochloric acid and 975 mL of water to make 1000 mL. Pipet 5 mL of this solution into a 250-mL iodine flask, add 5 mL of hydrogen peroxide TS and 15 mL of sodium hydroxide solution (1 in 5), boil for 10 minutes, cool, and add 2 g of potassium iodide and 20 mL of dilute sulfuric acid (1 in 4). When the precipitate has dissolved, titrate the liberated iodine with 0.1 N sodium thiosulfate VS, adding 3 mL of starch TS as the indicator. Perform a blank determination with the same quantities of the same reagents, and make any necessary correction. Each mL of 0.1 N sodium thiosulfate is equivalent to 23.79 mg of  $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$ . Adjust the final volume of the solution by the addition of enough of the mixture of hydrochloric acid and water so that each mL contains 59.5 mg of  $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$ .

Products are manufactured under an NSAI registered I.S EN ISO9001:2015 Quality System, registration no: 19.2769

Date of issue of the certificate: 10/02/2021

*Eileen Malone*

**QC Technician Eileen Malone**

Complementary information relative to this product is available at [www.reagecon.com](http://www.reagecon.com)  
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