

# Certificate of Analysis

**Product Name:** Chondroitinase ABC (from *Protease vulgaris*), Protease Free  
**Cat. Number:** AMS.E1028-02  
**EC Number:** 4.2.2.4  
**CAS Number:** 9024-13-9  
**Lot Number:** CFP-0077

Test	Specifications	Results	Test Methods
<b>Appearance</b>	Dry white to off white lyophilized powder	Conforms	Visual Inspection
<b>Unit Size</b>	2 units	2.27 units	UV <sub>232nm</sub> (QC009)
<b>Protein Content</b>	Report result	15.33 ug	Bradford (WI.05.008)
<b>Specific Activity</b>	≥ 100 units/mg protein	147.88 units/mg protein	--
<b>Bacterial Endotoxin</b>	≤200 EU / unit enzyme	<0.0009 EU/unit enzyme	Turbidimetric Technique (WI.05.004)
<b>Stabilizer</b>	Albumin Free	Conforms	SDS PAGE (WI.05.013)
<b>Min Shelf Life</b>	2 years	2 years from 03 Dec 2021	--
<b>Contaminants</b>			
<b>Chondro-4-sulfatase</b>	Not detected	Not detected	Morgan Elson
<b>Chondro-4-sulfatase</b>	Not detected	Not detected	
<b>Protease</b>	Not detected	Not detected	UV <sub>253nm</sub> to detect any OD change
<b>Heparinase</b>	Not detected	Not detected	UV <sub>232nm</sub> to detect any OD change
<b>Heparitinase</b>	Not detected	Not detected	

**One unit is defined as the amount of enzyme required to liberate 1 μmole of unsaturated disaccharide from chondroitin sulfate C per min at 37°C, pH 8**

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### Storage Instructions:

Keep at or below -20°C until opened  
After reconstitution, aliquot and keep at or below -20°C

### Reconstitution:

Advice from manufacturing lab:

Add 200ul of 0.1% bovine serum albumin solution or 20mM sodium phosphate buffer, pH 7.0

We have had reports from customers who have successfully used the enzyme after reconstituting

- with 0.1% BSA and 5mM Ca<sup>2+</sup>-containing PBS, pH 7.2 (see p3 of our [ChondroitinaseABC flyer](#))
- with enzyme assay buffer (0.1M NH<sub>4</sub>Ac, pH 8.0) into 10U/ml stock.

The enzyme is supplied BSA free, so users can omit carrier if they want to use enzyme immediately.  
BSA is recommended for long term storage of reconstituted enzyme.

If you need to adjust pH; the manufacturing lab's recommendations are as follows:

**Method 1:** Add 200ul to 1ml of 20mM sodium phosphate buffer pH 7.4 to 7.6 to adjust pH instead of water.

**Method 2:** Add 200ul water to reconstitute, then add 20mM sodium phosphate dibasic solution.

The exact amount of buffer or sodium phosphate dibasic added can be estimated by (a) mock experiment using blank buffer or (b) using the pKa equation.