

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-0027

Test	Specifications	Results	Test Methods
Appearance	Dry white to offwhite lyophilized powder	Conforms	Visual Inspection
Unit Size	2 units	2 units	UV _{232nm} (QC009)
Protein Content	Report result	9.82 ug	Bradford (QC010)
Specific Activity	≥ 100 units/mg protein	203.67 units/mg protein	--
Bacterial Endotoxin	≤200 EU / unit enzyme	0.76 EU / unit enzyme	LAL gel clot ((QC003))
Stabilizer	Albumin Free	Conforms	SDS PAGE
Min Shelf Life	2 years	2 years from 14 Sep 2013	--
Contaminants			
Chondro-4-sulfatase	Not detected	Not detected	Morgan Elson
Chondro-4-sulfatase	Not detected	Not detected	
Protease	Not detected	Not detected	UV _{253nm} to detect any OD change
Heparinase	Not detected	Not detected	UV _{232nm} to detect any OD change
Heparitinase	Not detected	Not detected	

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

RESEARCH USE ONLY

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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 Ca²⁺-containing PBS, pH 7.2 (see p3 of our [ChondroitinaseABC flyer](#))
- with enzyme assay buffer (0.1M NH₄Ac, 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.

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