Certificate of Analysis

Product Name: Chondroitinase ABC (from *Proteus vulgaris*), Protease Free
Cat. Number: AMS.E1028-10
EC Number: 4.2.2.4
CAS Number: 9024-13-9
Lot Number: **CFP-0078**

Test	Specifications	Results	Test Methods
Appearance	Dry white to off white lyophilized powder	Conforms	Visual Inspection
Unit Size	10 units	11.06 units	UV_{232nm} (QC009)
Protein Content	Report result	73 ug	Bradford (QC010)
Specific Activity	≥ 100 units/mg protein	151.47 units/mg protein	--
Bacterial Endotoxin	≤200 EU / unit enzyme	<0.0002 EU/unit enzyme	Turbidimetric Technique (WI.05.004)
Stabilizer	Albumin Free	Conforms	SDS PAGE (WI.05.013
Min Shelf Life	2 years	2 years from 03 Dec 2021	--
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 1μmole 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 reconsitituting

- with 0.1% BSA and 5mM Ca^{2+}-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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