

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-0025

| Test | Specifications | Results | Test Methods |
|----------------------------|--|-------------------------|---|
| Appearance | Dry white to offwhite lyophilized powder | Conforms | Visual Inspection |
| Unit Size | 10 units | 10.69 units | UV _{232nm} (QC009) |
| Protein Content | Report result | 34.24 ug | Bradford (QC010) |
| Specific Activity | ≥ 100 units/mg protein | 312.21 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 2 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 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 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.