



730 Vassar Avenue, Lakewood, NJ 08701  
800.445.9603 \* 732.942.1660 fax 800.368.3108 \* 732.942.9270  
[www.worthington-biochem.com](http://www.worthington-biochem.com)

## Certificate of Analysis

Product Carbonic Anhydrase  
Source Bovine Erythrocytes  
Country of Manufacture Lakewood, NJ USA  
All products from animal sources are produced from starting material of USDA-approved origin, collected in United States Department of Agriculture (USDA) or equivalent approved facilities, inspected to be free of disease and suitable for exportation. Certificates of Origin are available upon request.  
Storage Store at 2-8°C.  
Code CA  
Lot Number  
Re-Assay Date  
Description A partially purified, dialyzed, lyophilized powder.  
Unit Definition The Unit is determined by the electrometric method of Wilbur and Anderson (J. Biol. Chem., 176, 147 (1948) in which the time required (in seconds) for a saturated CO<sub>2</sub> solution to lower the pH of 0.02 M Tris-HCl buffer from 8.3 to 6.3 at 0°C is determined. The time without enzyme is recorded as T<sub>0</sub>; with enzyme, T. A unit of activity = 2(T<sub>0</sub> - T) divided by T.

### Parameter

u/mg dw  
A280nm @ 1 mg/ml

### Result

3,780  
1.33

### Acceptance Criteria

≥3,000 units per mg dry weight  
Report assay value.