



Call Sigma for --

enzymes important in the KREBS-HENSELEIT UREA SYNTHESIZING CYCLE\*

### ARGINASE

(E.C. 3.5.3.1) from Beef Liver  
(L-Arginine Ureohydrolase;  
L-Arginine amidinohydrolase)  
Lyophilized powder

Catalyzes the following reaction:



One unit will convert approximately one micromole of L(+) Arginine to L-Ornithine and Urea per minute at pH 9.5 at 37°C.

Order Sigma Product No. A-2137

Approx. 60 units per mg. Protein (Biuret)

2500 units	\$ 4.85	12,500 units	\$20.00
6250 units	11.00	25,000 units	30.00

\*Ref.: Krebs, H. A. and Henseleit, K., Z. Physiol. Chem., 210:33 (1932).

### ORNITHINE CARBAMOYLTRANSFERASE

(E.C. 2.1.3.3) from Streptococcus faecalis  
(Ornithine Transcarbamylase; Carbamoylphosphate;  
L-Ornithine Carbamoyltransferase)  
Lyophilized with Trizma® buffer.

Suitable for the determination of Carbamyl Phosphate and Ornithine.

One unit will form one micromole of Citrulline from Ornithine and Carbamyl Phosphate per minute at pH 8.5 at 37°C.

Order Sigma Product No. O-2501

Approx. 600 units per mg. Protein (Lowry)

30 units	\$5.00	300 units	\$40.00
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Other enzymes related to AMMONIA NITROGEN METABOLISM:

L-Asparaginase	Glutamic Oxalacetic Transaminase	Glutaminase
L-Aspartase	Glutamic-Pyruvic Transaminase	L-Histidase
Creatininase	Galase	Adenosine Deaminase
L-Glutamic Dehydrogenase	Useful for assay of $\gamma$ -Aminobutyric Acid.	5'-AMP Deaminase

See the Sigma Catalog for further details.

Sigma also offers --

### CARBOXYPEPTIDASE - B (E. C. No. 3.4.2.2.)

catalyzes hydrolysis of the basic amino acids Arginine and Lysine from the carboxyl terminal position in polypeptides.

One of the major pancreatic proteases, Carboxypeptidase-B also functions in the further degradation of products of tryptic digestion.

C-7011	From Hog Pancreas	Chromatographically purified	Approx. 175 units per mg Protein (Biuret).
		Frozen solution in 0.1 M NaCl. Substantially free of	
		Carboxypeptidase-A and Trypsin. May contain trace	1 mg \$17.35
		amounts of Chymotrypsin.	5 mg 42.30
			10 mg 67.50
C-7386	From Hog Pancreas	Partially purified	Approx. 70 units per mg Protein (Biuret).
		Frozen solution in 0.1 M NaCl. May contain Trypsin,	
		Chymotrypsin and Carboxypeptidase-A.	10 mg \$27.40
C-7261	Carboxypeptidase B-DFP from Hog Pancreas		Approx. 100 units per mg Protein (Biuret).
		Treated with Diisopropylfluorophosphate to eliminate	
		tryptic and chymotryptic activities.	1 mg \$16.35
		Frozen solution in 0.1 M NaCl.	5 mg 37.30
			10 mg 62.40

Prices include dry ice, insulated container and shipping costs via air anywhere in U. S. with exception of Alaska and Hawaii. F.O.B. St. Louis via air to Alaska, Hawaii and other countries.

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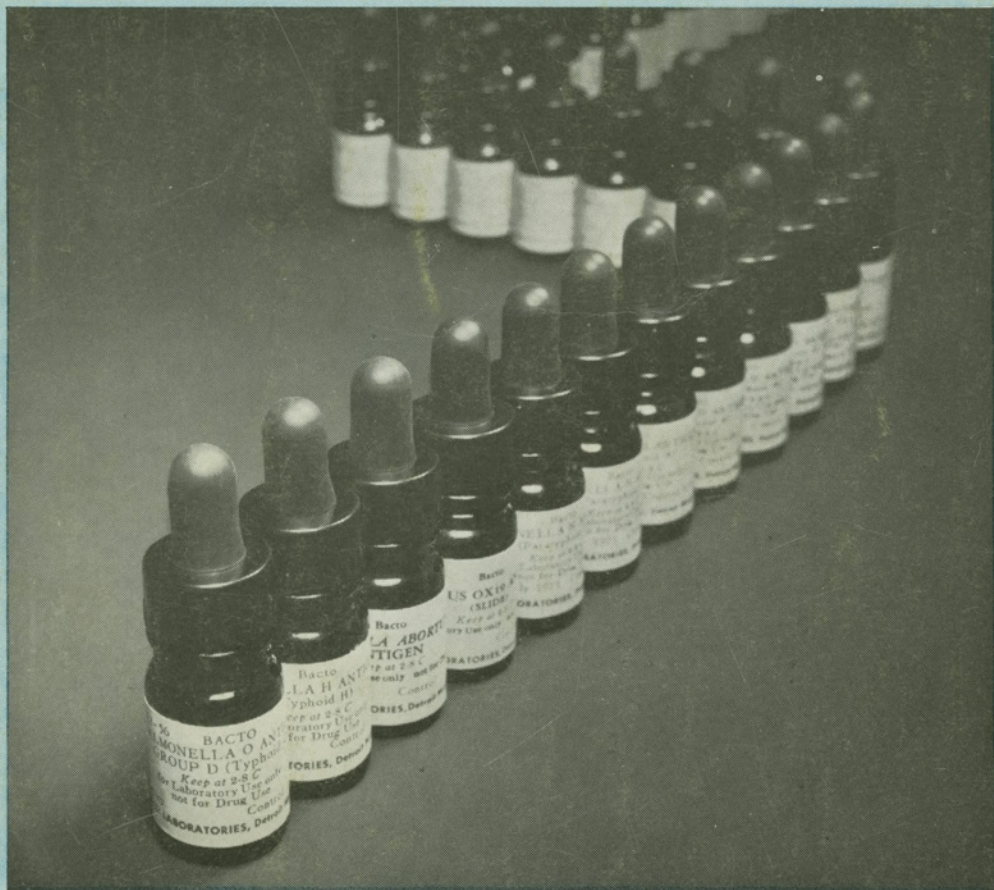
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