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Certificate of Analysis

Product Name: CarnoSyn® beta-Alanine

CSI Item No. 7012 **CAS No.** 107-95-9 **Lot No.** 128181

Manufacturing Date: August 27, 2012
Expiration Date: August 26, 2015

ANALYTICAL	SPECIFICATIONS	RESULTS	METHODS
Appearance	White crystalline powder	Conforms	Visual
Identification	Conforms	Conforms	IR
Chloride	NMT 0.002% (20 ppm)	≤ 0.002%	1g of B-A to 20mL of water in a Nessler tube. Add 5mL nitric acid (1 in 10) and use as test solution. Put 2mL of Standard Chloride Solution (0.01mg/mL) into another Nessler tube, and add water to make 20mL. Add 5mL of nitric acid(1 in 10), and use as control solution. Add 1mL of 0.1mol/mL silver nitrate TS to the test solution and to the control solution, mix well, and allow to stand for 5 minutes. Compare the opalescence developed in both solutions against a blank background.
Sulfate	MMT 0.05% (500 ppm)	≤ 0.05%	1g B-A in 20mL of water in Nessler tube. Add 1mL of 10% hydrochloric acid and use as test solution. Put 1mL of Standard Sulphate Solution (0.1mg/mL) into another Nessler tube, and add water to make 20mL. Add 1mL of 10% hydrochloric acid, and use this solution as control solution. Add 2mL barium chloride TS to test solution and to control solution, mix well, and allow to stand for 10 minutes. Compare the opalescence developed in both solutions against a blank background.
Ammonium	NMT 0.05% (500 ppm)	≤ 0.05%	0.10g B-A into distilling flask. Add 140mL water & 2g magnesium oxide, & connect distillation apparatus. Add 20mL of 0.5% boric acid solution to the receiver as absorbing solution, & immerse the lower end of the condenser. Adjust the heating to give a rate of 5 to 7mL per minute of distillate, & distill until the distillate measures 60mL. Remove the receiver from the lower end of the condenser, rinsing the end part with a small quantity of water, add water to make 100mL and use this solution as the test solution. Put 10mL Standard Ammonium Solution (0.01mg/mL) into the distilling flask, proceed as for the preparation of the test solution, & use this solution as the control solution. Put 30mL of the test solution & the control solution into each Nessler tubes, add 6.0mL of phenol-sodium nitroprusside TS to each solution & mix. Then add 4mL of sodium hypochlorite-sodium hydroxide TS & water to make 50mL, mix & allow to stand for 60 minutes. Compare the color of both solutions against a white background.

US and International patents for the use of Carnosyn beta-Alanine include, but are not limited to:
US 5,965,596; US 6,426,361, 7,504,376 and 8,067,381

This Certificate of Analysis reflects results reported by our supplier and/or independent laboratory.

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