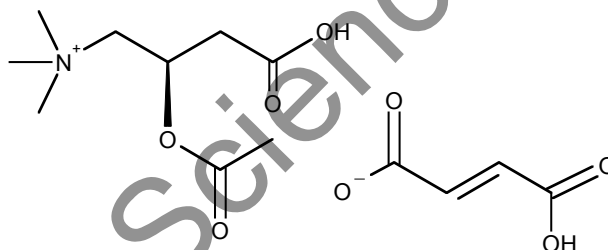
**Sigma-tau HealthScience Inc.**

180 Varick Street, Suite 1524
New York, New York, 10014 USA
Phone: (+1) 212-645-5202
Toll Free: 1-877-246-7468
Fax: (+1) 212-645-0652
Internet: www.healthscienceusa.com

Chemical name: **Acetyl-L-Carnitine Hydrogen Fumarate**

Structure:



Formula	:	$C_{13}H_{21}NO_8$
Molecular weight	:	319.32
Elemental analysis	:	C 48.90% H 6.63% N 4.39% O 40.08 %
Theoretical content	:	63.6% as Acetyl-L-Carnitine inner salt 36.4% as Fumaric Acid
Appearance	:	white powder
pH (1% w/w)	:	2.7 - 3.7
Water content	:	< 1.0 %
Melting point	:	107.0°C -109.0°C
Solubility in water	:	soluble

2/17/2005 "The information contained herein is based on technical data and tests which are reliable to the best of our knowledge. The information is intended for use by persons having technical skill, at their own discretion and risk. Since conditions of use are outside Sigma-tau HealthScience Inc., Biosint SpA and Sigma-tau SpA control, we make no warranties or representations with respect to the above information and we can assume no liability for results obtained or damages incurred through use thereof. Customer is urged to evaluate the stability and performance of this, as any ingredient, as well as the finished product in their own laboratory, thereby subjecting same to similar conditions under which the ingredient and finished product are expected to perform. We assume no liability for a customer's violations of patents or other rights. No chemical should be used as, in, or on a food, feed, drug or cosmetic until the safety and legality of its use has been determined."