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**Zamora et al.**

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(54) **POST LABELING STABILIZATION OF  
RADIOLABELED PROTEINS AND PEPTIDES**

(75) Inventors: **Paul O. Zamora**, Guadalajara (MX);  
**Michael J. Marek**, Albuquerque, NM  
(US)

(73) Assignee: **RhoMed Incorporated**, Princeton, NJ  
(US)

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U.S.C. 154(b) by 0 days.

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1997, now Pat. No. 6,066,309, which is a continuation-in-  
part of application No. 08/794,270, filed on Jan. 31, 1997,  
now abandoned.

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1996.

(51) **Int. Cl.**<sup>7</sup> ..... **A61K 51/00**; A61M 36/14

(52) **U.S. Cl.** ..... **424/1.49**; 424/1.11; 424/1.69;  
424/1.53; 424/806; 530/863

(58) **Field of Search** ..... 424/1.11, 1.37,  
424/1.49, 1.53, 1.65, 1.69, 9.1, 179.1, 806,  
807, 804, 805; 530/300, 311, 317, 333,  
334, 338, 863, 864, 350, 866, 861, 862;  
206/223, 569, 570; 549/315; 436/129

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*Primary Examiner*—Dameron L. Jones

(74) *Attorney, Agent, or Firm*—Darby & Darby

(57) **ABSTRACT**

The subject invention relates to the use of ascorbic acid and derivatives thereof in stabilizing radiolabeled proteins and peptides against oxidation loss of radiolabel and autoradiolysis. Ascorbic acid is added after radiolabeling, including any required incubation period, but prior to patient administration.

**12 Claims, 13 Drawing Sheets**

FIG. 1A

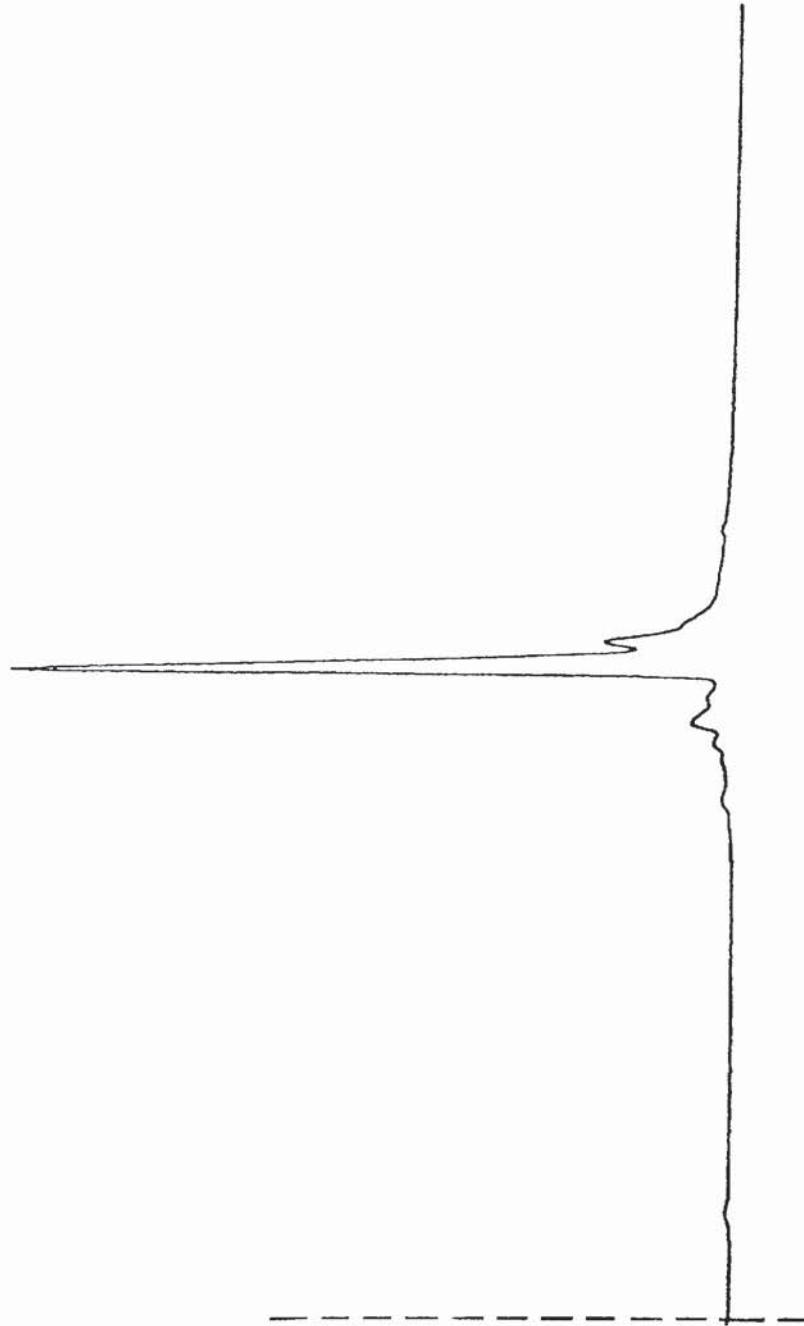
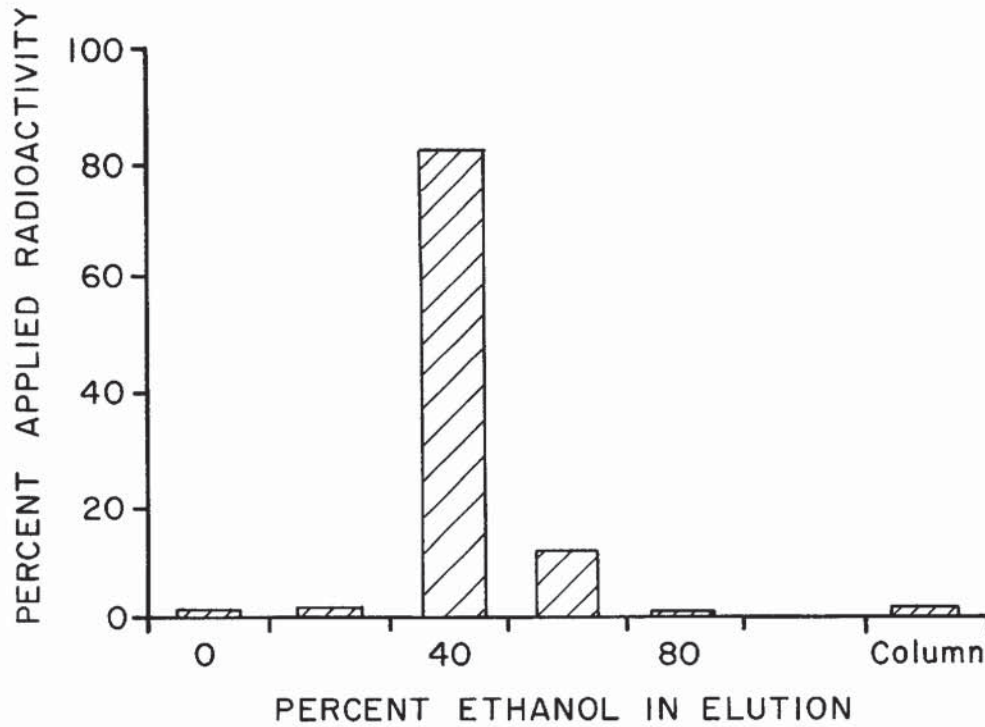


FIG. 1B



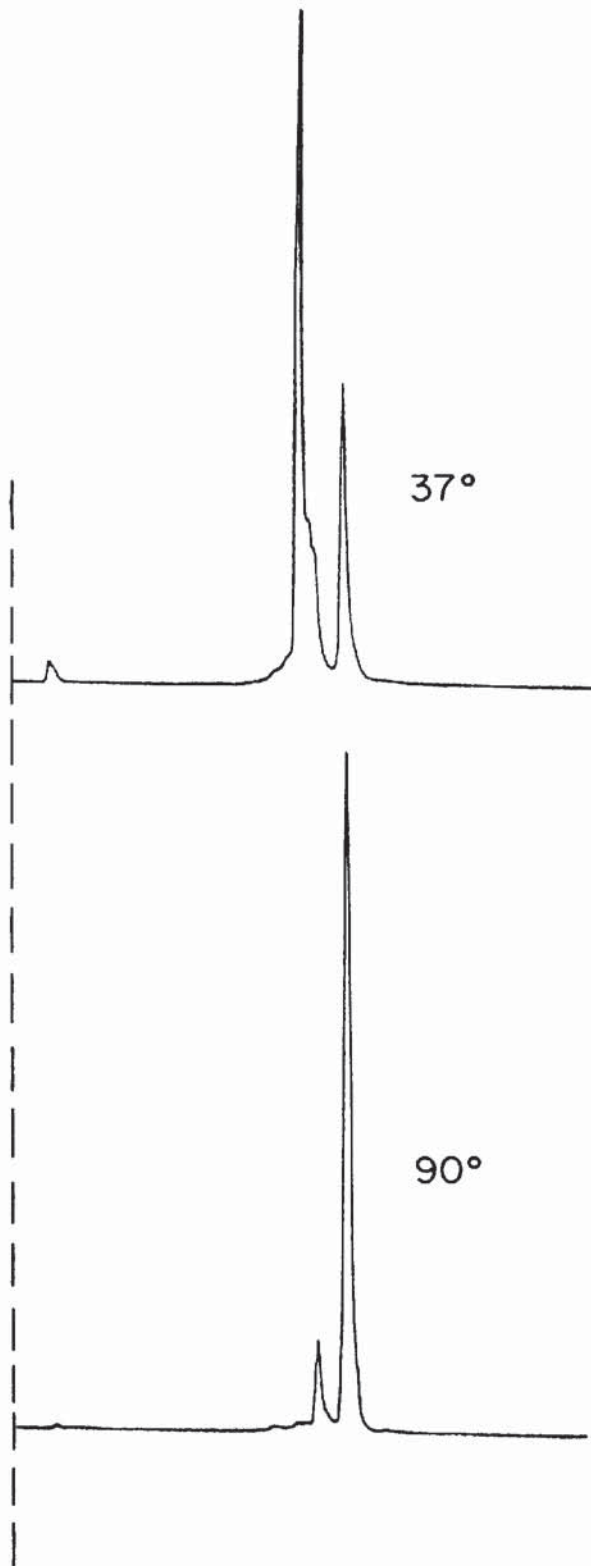
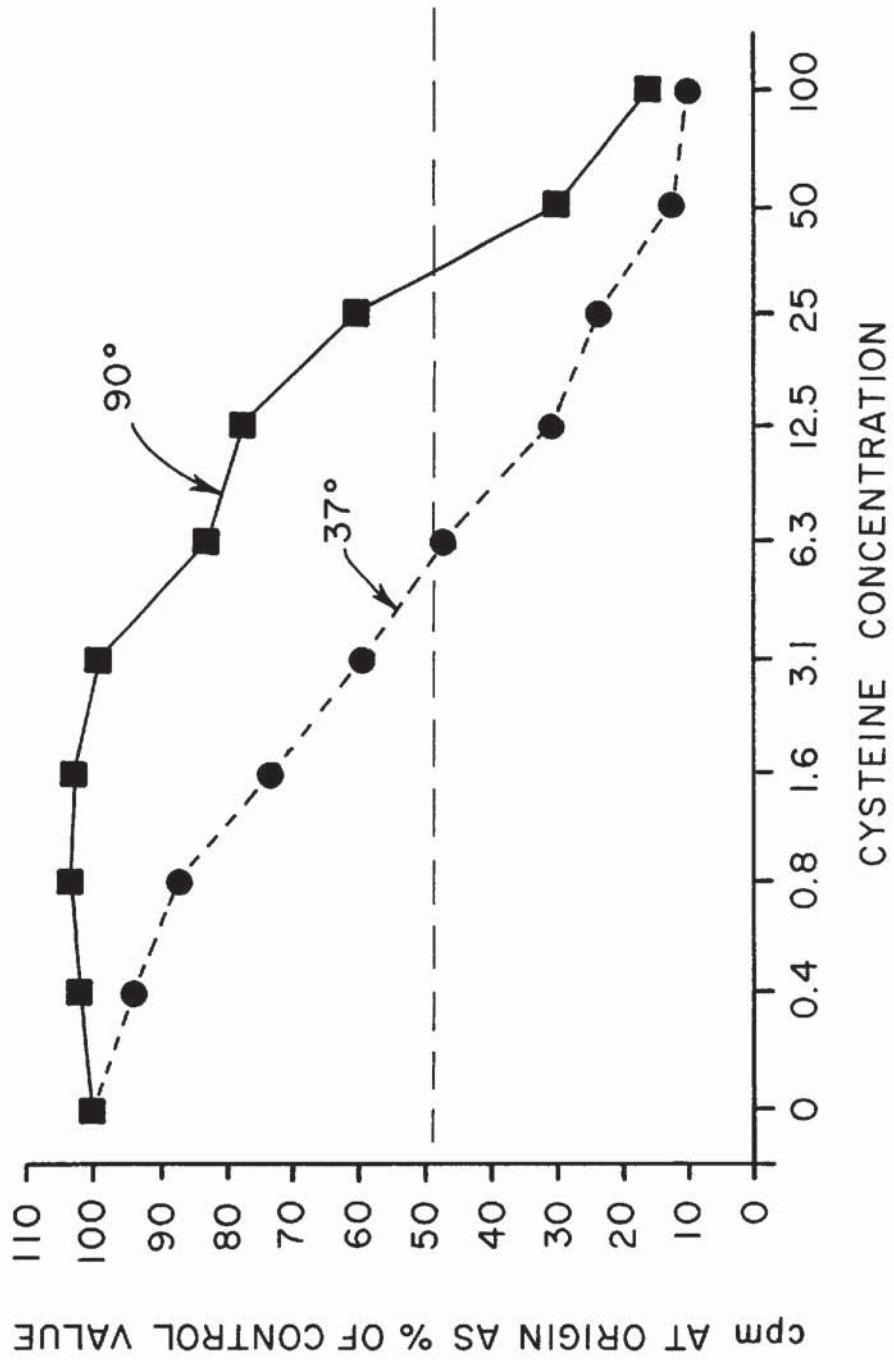


FIG. 2A

FIG. 2B

FIG. 3



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