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Phosphorus, Sulfur, and Silicon and the Related Elements

Publication details, including instructions for authors and subscription information:

<http://www.informaworld.com/smpp/title~content=t713618290>

SYNTHESES OF SOME ^{35}S -LABELLED ORGANIC COMPOUNDS AT BORIS KIDRIČ INSTITUTE - VINČA

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To cite this Article Vučina, J. L. , Skakun-Todorović, M. B. and Albahari, S. R.(1979) 'SYNTHESES OF SOME ^{35}S -LABELLED ORGANIC COMPOUNDS AT BORIS KIDRIČ INSTITUTE - VINČA', Phosphorus, Sulfur, and Silicon and the Related Elements, 6: 1, 325

To link to this Article: DOI: 10.1080/03086647908080436

URL: <http://dx.doi.org/10.1080/03086647908080436>

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^{35}S -labelled organic compounds are widely used in different fields: medicine, chemistry, biochemistry, biology, etc. Some of these compounds are known as chemoprotectors and ^{35}S -labelled forms are used in the investigation of such protective mechanism. Details of the chemical and biochemical syntheses of some ^{35}S -labelled organic compounds are given in the paper: DL-cysteine hydrochloride- ^{35}S (1-amino-2-mercaptopropionic acid), vitamin B_1 - ^{35}S (thiamin hydrochloride), thiourea- ^{35}S , carbon disulphide- ^{35}S and L-methionine- ^{35}S (1-amino-4-methylthiobutyric acid). Products of high specific activities are obtained: 5-10 mCi/mM DL-cysteine hydrochloride- ^{35}S ; 60-120 mCi/mM vitamin B_1 - ^{35}S ; 100-200 mCi/mM thiourea- ^{35}S ; 20-100 mCi/mM carbon disulphide- ^{35}S and 1-10 Ci/mM L-methionine- ^{35}S . All the products are of high chemical and radiochemical purity, which were determined by thin layer chromatography.