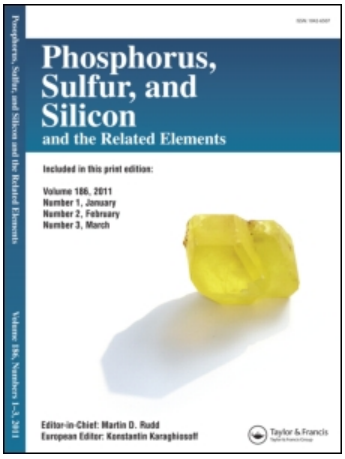

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PRODUCTION OF SOME INORGANIC FORMS OF ^{35}S FOR CHEMICAL SYNTHESIS OF LABELLED ORGANIC COMPOUNDS

M. B. Skakun-Todorović[a]; J. L. Vučina[a]; S. R. Albahari[a]
[a] Radioisotope Laboratory, Boris Kidrich Institute of Nuclear Sciences - Vinča, Belgrade, Yugoslavia

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M.B.Skakun-Todorović, J.L.Vučina and S.R.Albahari

Radioisotope Laboratory
Boris Kidrich Institute of Nuclear Sciences - Vinča
11001 Belgrade, P.O.B. 522, Yugoslavia

Some inorganic forms of ^{35}S are used as starting material for some chemical syntheses of labelled organic compounds. The choice depends on the desired characteristics of the labelled compound. Preparation of barium sulphate-^{35}S, barium sulphide-^{35}S, ferrous sulphide-^{35}S, sodium sulphide-^{35}S and elementary form of ^{35}S, is described. The characteristics of the products, along with determination methods, are given. The products are obtained with high specific activities of: 5-15 Ci/g S barium sulphate-^{35}S; 1-5 Ci/g S barium sulphide-^{35}S; 100-500 mCi/g S ferrous sulphide-^{35}S; 1-5 Ci/g sodium sulphide-^{35}S and 100-500 mCi/g S elementary ^{35}S.