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

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

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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 .