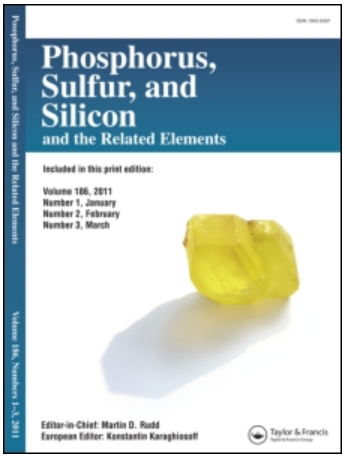

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PREPARATION OF L-CYSTEINE-^{35}S HYDROCHLORIDE BY REDUCTION OF L-CYSTINE-^{35}S

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PREPARATION OF L-CYSTEINE-^{35}S HYDROCHLORIDE BY REDUCTION OF L-CYSTINE-^{35}S

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The method for the synthesis of L-cysteine hydrochloride labelled with ^{35}S is described. L-Cystine-^{35}S, obtained from baker's yeast, was reduced with tin in hydrochloric acid and radiochemical pure L-cysteine-^{35}S-hydrochloride was isolated by ion-exchange chromatography on a column.

The obtained L-cysteine-^{35}S hydrochloride was stable in aqueous solution pH=2 over long period and have specific activity 20-125 mCi/mmol and radiochemical purity better than 95%.