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## Phosphorus, Sulfur, and Silicon and the Related Elements

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### PREPARATION OF L-CYSTEINE-<sup>35</sup>S HYDROCHLORIDE BY REDUCTION OF L-CYSTINE-<sup>35</sup>S

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PREPARATION OF L-CYSTEINE-<sup>35</sup>S HYDROCHLORIDE  
BY REDUCTION OF L-CYSTINE-<sup>35</sup>S

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

The obtained L-cysteine-<sup>35</sup>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%.