

Sulphur-35

An aliquot of samples is mixed with sodium hydroxide and Benedict's reagent. The mixture is dried and then muffled in the furnace. The residue is dissolved in hydrochloric acid and purified by carbonate and barium sulphate precipitation. The precipitate is then dissolved in alkaline EDTA and counted by liquid scintillation counting. The combined chemical recovery and S-35 counting efficiency is determined by a duplicate sample spiked with a known amount of S-35.