

Iodine-129

Water

A sub-sample is transferred to a closed system that leads to a sodium hydroxide trap. Nitric acid is then added. The iodine is volatilised, while air is drawn through the system and the iodine is collected in the trap. Silver iodide is then precipitated and weighed to determine the yield. The precipitate is then suspended in scintillation cocktail and measured by liquid scintillation counting using the standard addition technique.