

## **Determination of Fission Radionuclides Sr-90 and Pu-242 in Water Samples**

Radionuclides have been conducted to determine the fission products Sr-90 and Pu-242 in water samples. Radionuclides are very much in nature, one of which is -90 strontium (Sr-90) and Plutonium - 242 (Pu-242) which is a specific radionuclide fission product. Sr-90 and Pu-242 from environmental samples is determined using the method of chemical separation. There are three steps to determine Sr-90 and Pu 242 in water samples are preparation, isolation of radionuclides and determination of radionuclides by using nuclear spectroscopy. For Sr-90 were analyzed by Liquid Scintillation Counter (LSC) and for Pu-242 is measured using alpha spectroscopy detector.

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