

ISO 13163:2021 (E)

Water quality — Lead-210 — Test method using liquid scintillation counting

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| A.2.1.2 | Standard solution of Pb(II) |
| A.2.1.3 | Quenching agent |
| A.2.1.4 | Laboratory water, distilled or deionized, complying with grade 3 of ISO 3696 |
| A.2.1.5 | Solution of stable iron carrier, approximately 1 g·l ⁻¹ (for example in 0,5 mol·l ⁻¹ HNO ₃). |
| A.2.1.6 | Cationic exchange resin, e.g. sulfonic type 8 % cross-linking. |
| A.2.1.7 | Hydrochloric acid solution, c(HCl) = 2 mol·l ⁻¹ . |
| A.2.1.8 | Nitric acid solution, c(HNO ₃) = 1 mol·l ⁻¹ . |
| A.2.1.9 | Nitric acid solution, c(HNO ₃) = 0,1 mol·l ⁻¹ . |

- A.2.1.10 ammonium hydroxide solution, $c(\text{NH}_4\text{OH})$ concentrated = 280 g·l⁻¹.
- A.2.1.11 Ammonium citrate or citric acid solution, $c(\text{C}_6\text{H}_{11}\text{NO}_7)$ or $c(\text{C}_6\text{H}_8\text{O}_7) = 0,01 \text{ mol}\cdot\text{l}^{-1}$ to 0,1 mol·l⁻¹
- A.2.1.12 EDTA solution, $c(\text{C}_{10}\text{H}_{16}\text{N}_2\text{O}_8) = 0,01 \text{ mol}\cdot\text{l}^{-1}$.
- A.2.1.13 Chromatographic extraction resin, 18C6 Crown ether-type resins.
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