

Schedule of Accreditation

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 1269 Accredited to ISO/IEC 17025:2017	United Kingdom Health Security Agency (UKHSA) Chilton Issue No: 026 Issue date: 11 April 2022	
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Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL, BIOLOGICAL FOODSTUFFS and DECOMMISSIONING Airborne dusts, Sand, Soils/Sediment, Water (Natural, surface, ground) Milk Environmental, Biological and Foodstuffs Milk	<u>Radiological Analysis</u>	Documented In-House Methods:
	Preparation of samples	Preparation using SOP's PR3, PR4, PR5, PR8, PR9 and PR10 by dissolution/digestion
	Americium - Am²⁴¹ Plutonium - Pu²³⁸ and Pu²³⁹⁺²⁴⁰ Strontium - Sr⁹⁰	Analysis using: SOP's Am2 and Pu1 by alpha spectrometry (SOP OP 1) Analysis using SOP Sr1 by gas flow proportional counting (SOP OP2)
	Radionuclides emitting gamma rays 59-1836 keV Caesium - Cs¹³⁷	Analysis using Section 3-4 of IoR Technical Manual by High resolution gamma ray spectrometry Preparation using SOP PR9 by freeze drying SOP OP7 Analysis using; Section 4 of IoR Technical Manual by high resolution gamma ray spectrometry



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ENVIRONMENTAL, BIOLOGICAL FOODSTUFFS and DECOMMISSIONING	<u>Radiological Analysis</u>	Documented In-House Methods:
Dust, Soil, Vegetation, Crops, Foodstuffs, Animal Tissue Faeces and Urine	Sample preparation	Preparation using SOP's PR1, PR2, PR3, PR4, PR5, PR6, PR7, PR8, PR11 By dissolution/digestion
	Alpha emitting: Americium - Am ²⁴¹	Analysis using: SOP's Am2, Pu1 and UT2 By alpha spectrometry SOP OP1
	Plutonium - Pu ²³⁸ and Pu ²³⁹⁺²⁴⁰ Uranium - U ²³⁴ , U ²³⁵ , U ²³⁸	
	Beta emitting: Strontium - Sr ⁹⁰	Analysis using SOP Sr1 by gas flow proportional counting SOP OP2
	Polonium - Po ²¹⁰ Lead - Pb ²¹⁰	Preparation using SOP PR7 Analysis using SOP's Po1 and Pb1 By alpha spectrometry SOP OP1
Soil/Sediment, Vegetation, Foodstuffs	Carbon - C ¹⁴ Total Tritium - H ³	Preparation using SOP HC 1 by combustion furnace (pyrolyser)
Decommissioning materials (brick, concrete, plaster, wood, floor covering and roofing)		Analysis using SOP OP6 by liquid scintillation
Waters (Natural, surface, ground)		
Water (Natural, surface, ground) Urine	Total Tritium and Aqueous Tritium - H ³	Preparation using SOP HC1 by distillation Analysis using SOP OP6 by liquid scintillation
Urine	Tritium - H ³	Preparation and Analysis using HD1 and SOP OP13 by direct liquid scintillation counting



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ENVIRONMENTAL, BIOLOGICAL FOODSTUFFS and DECOMMISSIONING (cont'd) Waters (non regulatory drinking water, ground water, surface water and land leachates) and air filters Rapid method.	<u>Radiological Analysis</u> (cont'd) Total alpha activity relative to: Polonium -209 Total beta activity relative to: Strontium-90	Documented In-House Methods: Documented in-house method GAB1 by liquid scintillation counting. Typical limits of detection: waters, total alpha 0.2 Bq/L; total beta 0.5 Bq/L; airfilters, total alpha 0.5 Bq/sample, total beta 1 Bq/sample
END		