

Custom radionuclides

NPL can also supply custom made standards for a wide range of radionuclides and activity concentrations.

Solutions are normally supplied as 1-10 g in a flame sealed glass ampoule. Larger volumes up to 1000 g can be supplied in HDPE bottles.

Below is a list of isotopes which have been previously standardised by NPL. Other isotopes may be available on request.

Please note, some of these radionuclides we currently have in stock, please contact customer services if you would like more information regarding their activity and suitability.

Element	Isotopes	Element	Isotopes
Americium	241, 242m, 243	Molybdenum	99
Antimony	124, 125	Neodymium	147
Barium	133,140	Neptunium	237, 239
Beryllium	7	Nickel	63
Bismuth	210	Niobium	93m, 95
Cadmium	109	Phosphorus	32
Caesium	134, 137	Plutonium	236, 238, 239, 241, 242
Calcium	41, 45	Polonium	208, 209, 210
Californium	249	Potassium	40
Carbon	11, 14	Protactinium	231
Cerium	139, 141, 144	Radium	223, 226
Chlorine	36	Rubidium	86
Chromium	51	Ruthenium	103, 106
Cobalt	57, 58, 60	Samarium	153
Copper	64	Selenium	75
Curium	244	Silver	110m, 111
Europium	152, 154, 155	Sodium	22
Fluorine	18	Strontium	85, 89, 90
Gadolinium	153	Sulphur	35
Holmium	166m	Technetium	99, 99m
Hydrogen	3	Thallium	201, 204
Iodine	123, 125, 129, 131	Thorium	228, 229, 232
Iridium	192	Tin	113
Iron	55, 59	Uranium	232, 233, 234, 235, 236, 238
Lead	210	Yttrium	88, 90
Manganese	54, 56	Zinc	65
Mercury	203	Zirconium	95

For any of these radionuclides, please contact customer services at: radioactivity@npl.co.uk