



**DETECTION LIMITS FOR TYPICAL SAMPLE SIZES AND MEASUREMENT TIMES  
FOR HIGH RESOLUTION GAMMA RAY SPECTROMETRY**

Nuclide	Soil	Sediment	Rainwater	Air	Meat	Milk	Fruits	Salad
	Bq/kg		Bq/m <sup>3</sup>		Bq/kg			
<b>Be-7</b>	1.58E+00	4.37E+00	2.05E+00	1.93E-05	3.96E-01	1.04E-01	2.48E-01	2.31E-01
<b>Na-22</b>	2.46E-01	2.06E-01	3.28E-01	1.69E-06	8.68E-02	2.26E-02	2.62E-02	2.57E-02
<b>K-40</b>	2.80E+00	3.04E+00	3.79E+00	3.87E-04	7.42E-01	1.60E-01	2.07E-01	9.34E-02
<b>Cr-51</b>	1.51E+00	1.85E+00	2.16E+00	8.96E-06	3.76E-01	8.77E-02	1.05E-01	8.77E-02
<b>Mn-54</b>	4.30E-01	2.35E-01	1.47E-01	1.19E-06	5.39E-02	1.21E-02	1.77E-02	2.05E-02
<b>Co-57</b>	6.92E-01	3.06E-01	6.82E-02	6.48E-06	2.42E-02	7.94E-03	1.67E-02	1.15E-02
<b>Co-58</b>	2.57E-01	1.98E-01	1.63E-01	1.35E-06	5.92E-02	1.30E-02	1.83E-02	1.56E-02
<b>Fe-59</b>	6.24E-01	6.17E-01	3.40E-01	3.17E-06	2.19E-01	2.88E-02	5.44E-02	3.73E-02
<b>Co-60</b>	1.95E-01	1.55E-01	3.00E-01	1.46E-06	6.80E-02	1.58E-02	2.36E-02	1.67E-02
<b>Zn-65</b>	7.97E-01	1.12E+00	1.42E+00	1.03E-05	6.64E-01	2.13E-01	1.80E-01	1.23E-01
<b>Zr-95</b>	5.12E-01	3.05E-01	2.39E-01	3.13E-06	8.23E-02	1.71E-02	2.50E-02	3.04E-02
<b>Nb-95</b>	2.22E-01	2.66E-01	2.59E-01	1.77E-06	6.96E-02	2.18E-02	1.93E-02	1.64E-02
<b>Ru-103</b>	3.46E-01	5.04E-01	6.22E-01	4.49E-06	1.60E-01	1.18E-02	3.92E-02	3.77E-02
<b>Ru-106</b>	2.13E+00	1.67E+00	1.90E+00	1.38E-05	5.45E-01	1.02E-01	1.60E-01	1.40E-01
<b>Sb-124</b>	2.33E-01	1.98E-01	1.70E-01	1.66E-06	4.95E-02	1.22E-02	1.69E-02	1.36E-02
<b>Sb-125</b>	3.88E-01	4.27E-01	1.04E-01	1.65E-06	5.93E-02	1.55E-02	1.99E-02	8.00E-03
<b>I-131</b>	8.02E-01	4.26E+00	1.25E+00	4.76E-06	1.16E-01	2.27E-02	3.12E-02	2.56E-02
<b>Cs-134</b>	1.42E-01	1.52E-01	1.24E-01	1.11E-06	3.58E-02	7.85E-03	1.64E-02	9.59E-03
<b>Cs-137</b>	7.68E-01	9.38E-01	2.77E-01	2.77E-06	1.23E-01	1.67E-02	1.75E-02	1.39E-02
<b>Ba-140</b>	2.34E+00	2.23E+00	1.39E+00	1.03E-05	3.13E-01	4.85E-02	7.03E-02	5.26E-02
<b>Pb-210</b>	7.41E+00	7.70E+00	2.57E+00	5.03E-05	4.08E-01	1.55E-01	2.58E-01	2.47E-01
<b>Ra-226</b>	4.51E+00	4.70E+00	1.55E+00	1.25E-04	6.33E-01	3.33E-01	4.17E-01	4.70E-01
<b>Ra-228</b>	2.79E+00	1.72E+00	6.62E-01	1.01E-05	1.56E-01	3.51E-02	4.91E-02	3.32E-02
<b>Th-228</b>	3.38E+00	7.66E+00	3.97E-01	1.39E-05	1.13E-01	1.57E-02	2.88E-02	2.46E-02
<b>U-238</b>	9.21E+00	1.05E+01	4.58E+00	3.63E-05	1.00E+00	1.68E-01	2.66E-01	1.70E-01

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