

## Accreditation scope

Name of the accredited subject: **WERT s.r.o.**

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**Laboratory for Activity Measurements**

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## Laboratory with a fixed accreditation scope.

Item	Object of testing		Used method		Other specifications (Area, uncertainty, purpose, modification/validation, opinions/interpretations, etc.)
	Subject / Matrix / Environment	Property / Parameter / Indicator / Analyte	Principle / Sort / Type	Identification	
1.	Aerosol filters, liquid and solid samples	Aktivita <sup>233</sup> U, <sup>234</sup> U, <sup>235</sup> U, <sup>236</sup> U, <sup>238</sup> U, <sup>238</sup> Pu, <sup>239,240</sup> Pu, <sup>229</sup> Th, <sup>230</sup> Th, <sup>241</sup> Am, <sup>242</sup> Cm, <sup>243,244</sup> Cm	PIPS <sup>1</sup>	PP-01-A Z <sup>7</sup>	U <sup>6</sup>
2.		Gross Alpha Activity, <sup>241</sup> Pu	LSC <sup>3</sup>	PP-02-B1 Z <sup>8</sup>	
3.		Activity of <sup>90</sup> Sr	LSC <sup>3</sup>	PP-03-B2 Z <sup>9</sup>	
4.		Gross Beta Activity	PIPS <sup>2</sup>	PP-04-B3 Z <sup>10</sup>	
5.		Activity of <sup>3</sup> H	LSC <sup>3</sup>	PP-05-B4 Z <sup>11</sup>	
6.		Activity of <sup>14</sup> C		PP-06-B5 Z <sup>12</sup>	
7.		Activity of <sup>63</sup> Ni		PP-08-B6 Z <sup>14</sup>	
8.		Beta activity of <sup>36</sup> Cl, <sup>41</sup> Ca, <sup>79</sup> Se, <sup>93</sup> Zr, <sup>107</sup> Pd, <sup>147</sup> Pm, <sup>151</sup> Sm, <sup>204</sup> Tl	HPGE <sup>5</sup>	PP-07-G Z <sup>13</sup>	
	Gamma Activity of Radionuclides	LEGE <sup>4</sup>			
	Low energy gamma activity of radionuclides <sup>55</sup> Fe, <sup>59</sup> Ni, <sup>93</sup> Mo, <sup>93m</sup> Nb, <sup>129</sup> I				

PIPS<sup>1</sup> – measurement using alpha spectrometry (Passivated Implanted Planar Silicon detector)PIPS<sup>2</sup> – measurement of gross alpha/beta count rate (Passivated Implanted Planar Silicon detector)LSC<sup>3</sup> – measurement using LSC system (Liquid Scintillation Counting)LEGE<sup>4</sup> – measurement using detection system with semiconductor detector (Low Energy Germanium detector)HPGE<sup>5</sup> – measurement using detection system with semiconductor detector (High-Purity Germanium detector)U<sup>6</sup> – Test results are introduced with expanded standard uncertainties with coverage factor k=2Z<sup>7</sup> – EPA methods EPA 402-R-12-009, EPA 402-R-18-002, EPA 3550B, EPA 3551A, EPA 3552  
Eichrom Methods ACW03, ACW04, ACW11, ACW16Z<sup>8</sup> – EPA methods EPA 402-R-12-009, EPA 402-R-18-002, EPA 3550B, EPA 3551A, EPA 3552  
Eichrom Methods SRW01, DOE Methods RP 500, RP 501, RP 520, STN 75 7612Z<sup>9</sup> – Eichrom Methods H3W02, DOE Methods RP 580Z<sup>10</sup> – Atomic Energy of Canada MethodsZ<sup>11</sup> – EPA methods EPA 402-R-12-009, EPA 402-R-18-002, EPA 3550B, EPA 3551A, EPA 3552  
Eichrom Methods NIW01, DOE Methods RP300Z<sup>12</sup> – EPA methods EPA 402-R-12-009, EPA 402-R-18-002, EPA 3550B, EPA 3551A, EPA 3552  
Eichrom Methods TCS01, TCW01, HASL-300 TC-02-RCZ<sup>13</sup> – EPA methods EPA 402-R-12-009, EPA 402-R-18-002, EPA 3550B, EPA 3551A, EPA 3552  
Eichrom Methods NI W01, RI010, FEW01, DOE Methods RP230, RP330Z<sup>14</sup> – EPA methods EPA 402-R-12-009, EPA 402-R-18-002, EPA 3550B, EPA 3551A, EPA 3552  
DOE Methods RP530, ASTM D7282-14,

Triskem method TKI-CL-V1.4, L.Erdey: Gravimetric analysis, 1965

L'Annunziata, M.F.: Handbook of radioactivity analysis. 1st. edition, Academic Press, California USA, 1998



