**SCOPE 309 ЛИ**

**Sofia, 18.07.2024**

**CENTRAL LABORATORY OF PLANT QUARANTINE – SOFIA**

**Management and laboratory address:**

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**To perform testing of:**

| **Type of the scope:** *flexible* | | | |
| --- | --- | --- | --- |
| **№** | **Tested products** | **Type of test/ characteristic** | **Testing methods**  **(standard/ validated method)** |
| **1** | **2** | **3** | **4** |
| 1. | Plants and tubers of potato (*Solanum tuberosum)* | Potato ring rot (*Clavibacter sepedonicus*) | ЕРРО PM 7/59  Isolation on semiselective medium MTNA (Jansing & Rudolph, 1998) |
| ЕРРО PM 7/59  Immunofluorescence test  EPPO PM 7/97 |
| ЕРРО PM 7/59 Conventional PCR (Pastrik, 2000) |
| Potato brown rot (*Ralstonia solanacearum*) | ЕРРО PM 7/21  Isolation on semiselective medium SMSA (Elphinstone et al., 1996) (mSMSA) |
| ЕРРО PM 7/21  Immunofluorescence test  EPPO PM 7/97 |
| ЕРРО PM 7/21 Conventional PCR (Pastrik et al., 2002) |
| 2. | Plants of tomato  (*Solanum lycopersicum*)*,* bittersweet nightshade (*Solanum dulcamara*)*,* black nightshade (*Solanum nigrum*)*,* related to the production of potatoes | Potato brown rot (*Ralstonia solanacearum*) | ЕРРО PM 7/21  Isolation on semiselective medium SMSA (Elphinstone et al., 1996) (mSMSA) |
| ЕРРО PM 7/21  Immunofluorescence test  EPPO PM 7/97 |
| ЕРРО PM 7/21 Conventional PCR (Pastrik et al., 2002) |
| 3. | Irrigation and waste water, related to the production and processing of potatoes | Potato brown rot (*Ralstonia solanacearum*) | ЕРРО PM 7/21  Isolation on semiselective medium SMSA (Elphinstone et al., 1996) (mSMSA) |
| ЕРРО PM 7/21  Immunofluorescence test  EPPO PM 7/97 |
| ЕРРО PM 7/21 Conventional PCR (Pastrik et al., 2002) |
| 4. | Plants of the genera:  maple (*Acer);* Camellia *(Camellia);* larch *(Larix);* honeysuckle *(Lonicera);* magnolia *(Magnolia);* pieris *(Pieris);* oak *(Quercus);* rhododendron *(Rhododendron);* yew *(Taxus);* viburnum *(Viburnum);* blueberry *(Vaccinium)*  and the species: sweet chestnut *(Castanea sativa);* European ash *(Fraxinus excelsior);* mountain laurel *(Kalmia latifolia);* bay laurel (*Laurus nobilis);* Douglas fir *(Pseudotsuga menziesii);* goat willow *(Salix caprea);* common lilac (*Syringa vulgaris)* | *Phytophthora* of ornamental species (*Phytophthora ramorum*) | ЕРРО PM 7/66  Isolation from plant material on medium - Vegetable juice agar (V8), Carrot piece agar (CPA) and semiselective medium -P5ARP[H];  Morphological identification |
| ISPM 27 - DP 23  Conventional PCR of Ioos et al. (2006) |
| 5. | Plants of tomato (*Solanum lycopersicum)* and pepper *(Capsicum annuum)* | Tomato brown rugose fruit virus (*Tomato brown rugose fruit virus*) | EPPO PM 7/125  Instructions to perform the most common ELISA tests; DAS-ELISA, DASI-(TAS-) ELISA |
| EPPO PM 7/146 Conventional RT-PCR test Alkowni et al., (2019) |
| 6. | Coniferous plants and plant products (wood discs, sawdust, chips, wood particles, wood packaging material /WPM/ etc) from the genera: pine (*Pinus*)*,* fir (*Abies*)*,* false cypress (*Chamaecyparis*), cedar (*Cedrus),* larch *(Larix),* spruce *(Picea)* and Douglas fir *(Pseudotsuga).* | Pine wood nematode  (*Bursaphelenchus xylophilus*) | ЕРРО PM 7/4 detection  ЕРРО PM 7/119 Baermann funnel/Oostenbrink dish |
| ЕРРО PM 7/4  identification on the basis of morphological features |
| ЕРРО PM 7/4  Conventional PCR test Matsunaga and Togashi (2004) |
| 7. | Beetles of the genus *Monochamus* | Pine wood nematode  (*Bursaphelenchus xylophilus*) | ЕРРО PM 7/4 detection  ЕРРО PM 7/119 Baermann funnel/ Oostenbrink dish |
| ЕРРО PM 7/4 Conventional PCR test Matsunaga and Togashi (2004) |

***Flexible scope:*** *Implementing a new version of standards/documents or standards/ documents replacing them is allowed. An updated list of standards/documents and their dated versions is provided by the CAB.*

**Flexible scope references:**

1. EPPO PM European and Mediterranean Plant Protection Organization, Phytosanitary Measures.

2. ISPM–DP International standard for phytosanitary measures - Diagnostic protocols.