



EVROPSKÁ UNIE
Evropské strukturální a investiční fondy
Operační program Výzkum, vývoj a vzdělávání



Appendix No. 1b – Technical specifications for part two

Technical specifications

Part Two - Fragment Length Analysis (FLA) by Capillary Electrophoresis (CE)

Objective:

Microsatellite marker analysis (characterization of genetic relatedness among populations, genetic fingerprinting) using FLA by CE.

Samples to be processed

DNA, fluorescently labelled PCR products (Inter-simple sequence repeats (ISSRs) from *Phytophthora* spp.). Multiplex PCR amplicons will be labelled with four different dyes: 6-FAM (blue), PET (red), VIC (green) and NED (yellow). PCR products will be sent in a concentration of 50 -100 ng/μl (total sample volume should be 10 - 20 μl).

Contact persons:

Issues related to public tender and samples:

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Issues related to results:

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Specification of services to be provided

- Samples will be prepared by the contracting authority: PCR products will be sent in a concentration of 50 – 100 ng/μl, with a total sample volume of 10 – 20 μl; the service provider will assure their collection and transportation (one collection per 2 weeks during the duration of the framework agreement).
- All services must be performed by the service provider in conformity with standard operation procedures for laboratory practices.



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- In case that multiplex analysis will be required, the concentration of the PCR products in a sample will be normalized by the contracting authority before shipment (in order to get a balanced profile).
- The contracting authority requires the service provider to present a proposal for FLA including the following services:
 - Addition of loading dye and size standard (ABI Standard Dye Set DS-33).
 - Separation of the fragments by CE on an Applied Biosystems Genetic Analyzer machine.
 - Analysis results should be delivered electronically, by email or secured server, as XLS and FSA files.
- The service provider will provide the customer with a professional consultation in the range of 2 hours (especially with regard to final assessment of results - data evaluation, possibly also regarding the sample processing related issues, etc.) - in the form of an online discussion or in the form of a personal discussion).

Other requirements

- The contracting authority requires the service provider to run a test with a small number of shipped samples before processing the bulk of samples. This test will be performed for each different *Phytophthora* species studied by microsatellite marker analysis (the contracting authority will supply in advance a list of samples to be used in the tests).
- The contracting authority requires FLA results within 7 working days from the date of collection of the samples.
- The contracting authority requires that the remaining samples will be stored by the service provider for a minimum of 2 weeks from the time of delivery of the results to the contracting authority.
- Reports, emails, online consulting, and other contacts and communication should be in English language.
- Invoicing of partial executed orders for the past period will always take place on 31 March 2022, 30 June 2022 and 31 August 2022.

The tender price must include all necessary costs. No additional charges are allowed.