# EPPO-Q-bank

A database to support plant pest diagnostic activities

**REQUIREMENTS FOR THE ADDITION OF NEW DATA INTO EPPO-Q-BANK**

**22-28196**

Date: 2023-01-23

### 1- Identification of the specimen/strain/isolate

Is the identification of the specimen(s)/strain/isolate considered reliable?

Points that will be checked by the EPPO-Q-bank curators include:
- The method used to identify the specimen/strain/isolate
- The expert / institute who performed the identification
- The taxonomy that was used.

The use of the latest taxonomy will be implemented by the curators if needed.

### 2- Collection

Is the specimen/strain/isolate available in a collection?

The EPPO-Q-bank curators will check whether the specimen/strain/isolate is available in a collection. For some disciplines (e.g. Bacteria), deposit (or consent to deposit) in a **public** collection is required. Depending on the disciplines and under specific conditions (e.g. material inaccessible, non-culturable pests…), curators may decide that this requirement does not apply.

### 3- Information on the specimen/strain/isolate

Are the minimum metadata available?

The minimum metadata that should be provided are listed in Table 1 of the EPPO-Q-bank metadata document. If adding the specimen /sequence(s) is of particular importance, curators may decide that this requirement must not be fully fulfilled.

### 4- Sequences

Is the quality of the sequences appropriate? Is the sequence reliable for the identification of the species?

Points that will be checked by the EPPO-Q-bank curators include:
- For Sanger sequence data:
  Primer sequences trimmed, PHRED scores appropriate, consensus sequence of appropriate size compared to the barcode (for viruses compared to the region used for species demarcation), if applicable. Note that for new barcodes, additional work is needed to check that the new barcode region is appropriate.
- For HTS data:
  Genome completeness, preferably near complete genome, sufficient coverage, all expected segments detected, ORFs present, to allow an unambiguous identification.

If the requirements are met, the curators should consider the added value of the inclusion of data in EPPO-Q-bank.