NAME OF THE ORGANISM: Xanthomonas perforans (Xanthomonas campestris pv. vesicatoria) (XANTPF)

GENERAL INFORMATION ON THE PEST

Name as submitted in the project specification (if different to the preferred name):
 
Xanthomonas campestris pv. vesicatoria  
Pest category:
 
Bacteria **1- Identity of the pest/Level of taxonomic listing:**  
Is the organism clearly a single taxonomic entity and can it be adequately distinguished from other entities of the same rank?
 
Yes  
Is the pest defined at the species level or lower?:
 
Yes  
Can listing of the pest at a taxonomic level higher than species be supported by scientific reasons or can species be identified within the taxonomic rank which are the (main) pests of concern?

* Not relevant: Vegetable propagating and planting material (other than seeds) sector

Is it justified that the pest is listed at a taxonomic rank below species level?
 
Not relevant  
Conclusion:

* Candidate: Vegetable propagating and planting material (other than seeds) sector

Justification (if necessary):
 
Xanthomonas campestris pv. vesicatoria is not a single taxonomic entity, and strains causing bacterial spot of tomato and pepper known with that name nowadays fall into four separate species: X. vesicatoria, X. euvesicatoria, X. perforans and X. gardneri.  
Sweet pepper (Capsicum annuum) and tomato (Solanum lycopersicum) are the main host plants of strains belonging to the former X. campestris pv. vesicatoria.  
Remark on Capsicum: Capsicum anomalum, C. baccatum, C. chacoense, C. chinensis, C. frutescens, C. galapagoense and one accession out of two of C. pubescens were found to be susceptible to X. campestris pv. vesicatoria race P6 after artificial inoculation (EFSA, 2014). As a consequence, listing of Capsicum at the genus level is justified. **2 – Status in the EU:**
   
Is this pest already a quarantine pest for the whole EU?
 
No  
Presence in the EU:
 
Yes  
List of countries (EPPO Global Database):
 
Italy (2013); Italy/Sicilia (2013)  
Conclusion:
 
candidate  
Justification (if necessary):
 
This pest is a candidate for the RNQP status according to the IIA2AWG. Data of the presence of this pest on the EU territory are available in EPPO Global Database (<https://gd.eppo.int/>). The pest identity according to the new classification is, in most cases, ―not stated/updated, since most of the reports date from before the new classification (EFSA, 2014).

HOST PLANT N°1: Capsicum (1CPSG) for the Vegetable propagating and planting material (other than seeds) sector.

Origin of the listing:
 
IIA2AWG  
Plants for planting:
 
Plants intended for planting **3 - Is the pest already listed in a PM4 standard on the concerned host plant?**
 
No 
Conclusion:
 
Evaluation continues **4 - Are the listed plants for planting the main\* pathway for the "pest/host/intended use" combination? (\*: significant compared to others):**
 
Yes 
Conclusion:
 
Candidate  
 
Justification:
 
Plants for planting is a significant pathway: Long-distance spread of tomato and pepper Xanthomonas spp. is commonly related to the trade of infected seeds and transplants. Short-distance dispersal is ensured by splashing water (irrigation and rain) or contaminated tools: Splashing water is particularly threatening during transplant production, when several thousands of transplants are growing crowded together, and in the field, in the case of sprinkler irrigation (EFSA, 2014). **5 - Economic impact:**  
Are there documented reports of any economic impact on the host?
 
Yes  
Justification:
 
Because of the recent reclassification of the pest, economic impact evaluation is proposed for the 4 listed species. The organism is considered an important bacterial pathogen of tomato and pepper. No recent data are available as regards crop losses. However, losses of up to 30% have been reported (EU COM, 2014). In addition, the pathogen can negatively affect fruit quality.  
What is the likely economic impact of the pest irrespective of its infestation source in the absence of phytosanitary measures? (= official measures)
 
Medium  
Is the economic impact due to the presence of the pest on the named host plant for planting, acceptable to the propagation and end user sectors concerned?
 
No  
Conclusion:
 
Candidate  
Justification:
 
Note: genetic resistance against the four Xanthomonas species has been described in both pepper and tomato. **6 - Are there feasible and effective measures available to prevent the presence of the pest on the plants for planting at an incidence above a certain threshold (including zero) to avoid an unacceptable economic impact as regards the relevant host plants?**
 
Yes
 
Conclusion:
 
candidate  
Justification:
 
PFA, Pest free production place/site; testing and seed treatment **7- Is the quality of the data sufficient to recommend the pest to be listed as a RNQP?**
 
Yes
 
Conclusion:
 
Candidate  
Justification:
 
 **CONCLUSION ON THE STATUS:**
 
Recommended for listing as an RNQP, based on data. **8 - Tolerance level:**  
Is there a need to change the Tolerance level:
 
No  
Proposed Tolerance levels:
 
Zero tolerance based on the following risk management measures. **9 - Risk management measures:**  
Is there a need to change the Risk management measure:
 
Yes  
Proposed Risk management measure:
 
Plants:  
(a) Seedlings have been grown from seeds that meet the requirements laid down (pest free area, field inspection, testing);  
and  
(b) Young plants have been maintained in appropriate hygiene conditions to prevent infection. **REFERENCES:**

* EFSA Panel on Plant Health (PLH) (2014) Scientific Opinion on the pest categorisation of Xanthomonas campestris pv. vesicatoria (Doidge) Dye, EFSA Journal 2014; 12(6): 3720;
* EU COM (2014) Recommendation of the Working Group on the Annexes of the Council Directive 2000/29/EC – Section II – Listing of Harmful Organisms as regards the future listing of Xanthomonas campestris pv. vesicatoria;