































| <ul> <li>This information is used to determine which test is<br/>appropriate for what purpose.</li> </ul>  |
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| <ul> <li>E.g. a particular method may be highly suitable to diagnose<br/>clinical cases of disease in individual animals of a certain<br/>age group, but the same method may be unsuitable for<br/>assessing the infection status of large numbers of clinically<br/>healthy animals.</li> </ul> |
| <ul> <li>Each Manual disease chapter includes a Table comparing<br/>different methods for targeted surveillance and diagnosis of<br/>Disease X.</li> </ul>   |
| It is an assessment of the test's 'fitness for purpose'.   |

5. Rating of tests against purpose of use

| Method                | Targeted surveillance |     |           |        | Presumptive diagnosis | Confirmatory diagnosis  |
|-----------------------|-----------------------|-----|-----------|--------|-----------------------|---|
|                       | Larvae                | PLs | Juveniles | Adults |                       | CONTRACTOR OF THE PARTY OF THE |
| Gross signs           | d                     | d   | С         | С      | С                     | d   |
| Bioassay              | d                     | d   | d         | d      | С                     | b   |
| Direct LM             | d                     | d   | С         | С      | С                     | С   |
| Histopathology        | d                     | С   | С         | С      | а                     | а   |
| Transmission EM       | d                     | d   | d         | d      | d                     | а   |
| Antibody-based assays | d                     | d   | С         | С      | а                     | b   |
| DNA Probes in situ    | d                     | d   | С         | С      | а                     | а   |
| PCR                   | d                     | b   | а         | а      | а                     | а   |
| Sequence              | d                     | d   | d         | d      | d                     | а   |

application;  $\mathbf{d} = \mathbf{the}$  method is presently **not recommended** for this purpose

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- The rating of the different diagnostic methods are somewhat subjective as suitability involves issues of reliability, sensitivity, specificity and utility.
- Although not all of the tests listed as category a (the recommended method) or category b (a standard method) have undergone formal standardisation and validation, their routine nature and the fact that they have been used widely without dubious results, makes them acceptable.

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- 6. Test(s) recommended for targeted surveillance to declare freedom from Disease X.
- Describes methods, based on the information provided in point 1- 4, and assessed in 5, for targeted surveillance to declare freedom from disease as outlined in the Aquatic Code.

#### 7. Corroborative diagnostic criteria



#### 7.1. Definition of suspect case

#### 7.2. Definition of confirmed case

- Defines what constitutes a suspect case of disease, and a confirmed case of disease
- For example, a certain level of mortality at the right time of the year, in susceptible animals, together with matching clinical signs, liver lesions and histopathology could be sufficient for suspicion of Disease X. Several combinations may be possible.
- A confirmed case could be defined where in addition to the above, the agent has been detected. However, detection of viable agents without any clinical signs could also constitute a confirmed case.
- This information is required:
  - for the purpose of disease investigations, especially in cases where 'free' status is threatened.
  - when surveillance of healthy populations yields controversial results, e.g. positive PCR signals in the absence of any other evidence of infection.

### CONTENTS



#### Part 3

**OIE Expertise** 

 List of OIE Reference Laboratories and Collaborating Centres for diseases of amphibians, crustaceans, fish and molluscs

