Annex 27. Item 9.3.4. – Sections 2.2.1. and 2.2.2. of Chapter 2.4.7. ‘Infection with *X. californiensis*’

CHAPTER 2.4.7.

infection with *xenohaliotis californiensis*

[…]

2.2. Host factors

2.2.1. Susceptible host species

Species that fulfil the criteria for listing as susceptible to infection with *Xenohaliotis californiensis* according to Chapter 1.5. of the *Aquatic Animal Health Code* (*Aquatic Code*) are:

|  |  |  |
| --- | --- | --- |
| Family | Scientific name | Common name  |
| Haliotidae | *Haliotis corrugata* | pink abalone |
|  | *Haliotis cracherodii* | black abalone |
|  | *Haliotis discus discus* | Japanese abalone |
|  | *Haliotis diversicolor* | small abalone |
|  | *Haliotis fulgens* | green abalone |
|  | *Haliotis kamtschatkana* | pinto abalone |
|  | *Haliotis rufescens* | red abalone |
|  | *Haliotis rufescens* X *Haliotis discus hannai* hybrid | hybrid red and Japanese abalone |
|  | *Haliotis sorenseni* | white abalone |
|  | *Haliotis tuberculata* | tuberculate abalone |

*~~Xenohaliotis californiensis~~* ~~infects members of the genus~~ *~~Haliotis~~* ~~and natural infections have been observed in black abalones (~~*~~H. cracherodii~~*~~), white abalones (~~*~~H. sorenseni~~*~~), red abalones (~~*~~H. rufescens~~*~~), pink abalones (~~*~~H. corrugata~~*~~), green abalones (~~*~~H. fulgens~~*~~), the small abalone (~~*~~H. diversicolor supertexta~~*~~; (Wetchateng, 2008; Wetchateng~~ *~~et al~~*~~., 2010), the European abalone (~~*~~H. tuberculata~~*~~) (Balseiro~~ *~~et al~~*~~., 2006) in the wild or culture facilities, as well as flat (~~*~~H. wallalensis~~*~~) and Japanese abalones (~~*~~H. discus-hannai~~*~~) in laboratory challenges (Friedman, unpublished observations). Other abalone species have not been tested. Temperature is important in both pathogen transmission and disease expression (Braid~~ *~~et al~~*~~., 2005; Friedman~~ *~~et al~~*~~., 1997; Raimondi~~ *~~et al~~*~~., 2002; Rosenblum~~ *~~et al~~*~~., 2008).~~

2.2.2. ~~Susceptible stages of the host~~ Species with incomplete evidence for susceptibility

Species for which there is incomplete evidence to fulfil the criteria for listing as susceptible to infection with *X. californiensis* according to Chapter 1.5. of the *Aquatic Code* are: *Haliotis gigantea*

In addition, pathogen-specific positive polymerase chain reaction (PCR) results have been reported in the following species, but no active infection has been demonstrated: *Haliotis discus hannai*

~~While all post-larval life stages have been demonstrated susceptible to infection with~~ *~~X. californiensis~~*~~, clinical disease is typically observed in animals >1 years of age in farmed abalones (Friedman, unpublished observations) and all abalone size classes observed in wild populations surveyed to date (e.g. Balseiro~~ *~~et al~~*~~., 2006; Braid~~ *~~et al~~*~~., 2005; Friedman~~ *~~et al~~*~~., 1997; Haaker~~ *~~et al~~*~~., 1992; Steinbeck~~ *~~et al~~*~~., 1992; Van Blaricom~~ *~~et al.~~*~~, 1993).~~

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