

FWL CHOLERA BACTERINS

The Disease: Fowl cholera is an infectious disease of poultry and other birds caused by *Pasteurella multocida*. Sixteen serotypes of *P. multocida* are currently recognized. Some isolates are hybrids of two or more serotypes. For example, Clemson University strain, a commonly used vaccine strain, is classified as a 3x4 (pronounced 3 cross 4). Serotypes 1, 3, 4 and 3X4 are the most common isolates that affect poultry.

Clinical signs of *P. multocida* infection vary according to the organism involved. In acute cholera, mortality may occur suddenly and spread rapidly through the flock. Birds may be found dead in the nest or depressed and cyanotic. On necropsy, hemorrhage, congestion and edema are usually evident. The liver is generally more affected than other organs and may appear swollen, streaked with light and dark bands, and contain yellow spots of necrosis. Chronic fowl cholera usually develops in birds surviving an acute attack. The infection becomes localized producing swellings in the wattle, joints, footpads, sternal bursa and tendon sheaths. These areas often contain a caseated material.

LAHI Fowl Cholera Bacterins: Lohmann Animal Health International produces a wide range of bacterins to help control Fowl Cholera. These bacterins contain the isolates needed to control disease caused by the most common isolates of *P. multocida* in chickens and turkeys.

Inacti/Vac FC3 is produced with serotypes 1, 3 and 4. Inacti/Vac FC4 is produced with four serotypes of *P. multocida*, Types 1, 3, 4 and 3X4. FC4 Gold is the latest LAHI *P. multocida* bacterin, containing the same 4 serotypes as FC4, but formulated into a water-oil-water emulsion. The dose size of FC4 Gold is smaller, 0.25ml. The novel emulsion and the concentrated dosing, allows for subcutaneous or intramuscular injection.

Autogenous bacterins can be made with isolates from your farm to control less common serotypes.

Two inoculations, given in the late growing period, produce high levels of immunity during the critical early period of production when acute Fowl Cholera usually occurs. High concentrations of antigen are suspended in a stable oil emulsion. When injected, the oil emulsion controls the absorption of the antigen and greatly enhances the development of high levels of immunity. The immunity produced is of long duration.

Since LAHI Fowl Cholera products are bacterins, they are completely safe because there are no living bacteria in the products. These products can safely be used to check the spread of infection in flocks where fowl cholera has been diagnosed. The bacterins will not spread from vaccinated to susceptible flocks or produce Fowl Cholera, which can happen when live products are used incorrectly.

Lohmann Animal Health International Fowl Cholera Products

Product	<i>P. multocida</i> Serotypes	Dose Size
Inacti/Vac FC4 Gold	1,3,4 and 3X4	0.25 ml
Inacti/Vac FC4	1, 3, 4 & 3X4	0.5 ml
Inacti/Vac FC3	1, 3 & 4	0.5 ml
Autogenous Bacterins	Any	0.5 ml or 0.25ml

- ☞ Safe, inactivated bacterins for any situation
- ☞ Protection against the most common *P. multocida* serotypes
- ☞ Long duration of immunity
- ☞ Autogenous bacterins for problem farms
- ☞ Two dose sizes to choose from
 - ☞ 0.5 ml traditional dose size
 - ☞ 0.25 ml dose size for reaction concerns