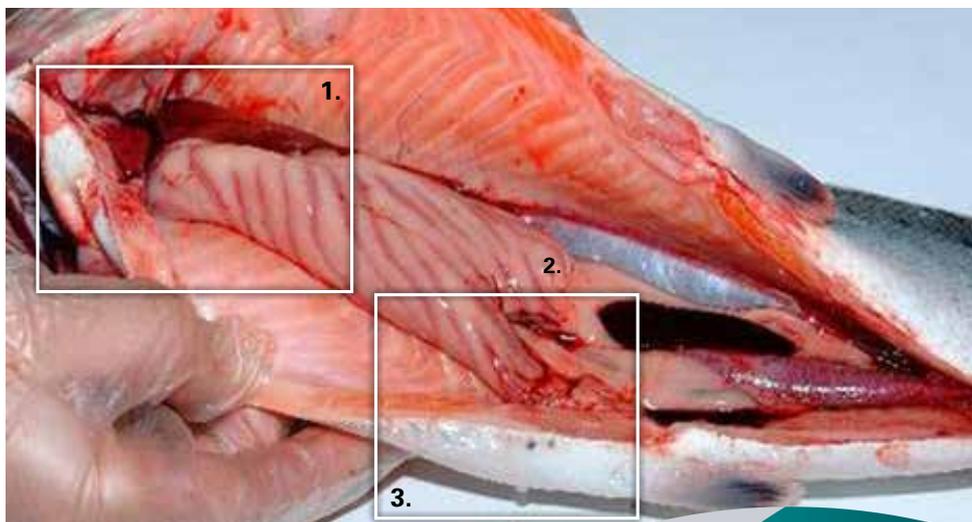


Vaccine Reaction Scoring Card

Table 1: Local reaction score (adapted from Speilberg)

Score	Severity of lesions	Characterisation of lesions
0	None	No visible lesions
1	Unlikely to be noticed by laymen	Very slight adhesions, most frequently around the injection site. No to minor opacity of peritoneum after evisceration
2	Unlikely to be noticed by laymen	Minor adhesions which may connect colon, spleen and/or caudal pyloric caecae to the abdominal wall. Only opacity of peritoneum remains after manually disconnecting the adhesions
3	Unlikely to be noticed by laymen after evisceration	Adhesions cover more cranial parts of the abdominal cavity, partly including pyloric caecae, the liver and/or ventricle connecting them to the abdominal wall
4	Unlikely to be noticed by laymen after evisceration	More extensive lesions, involving more extensive adhesions between the internal organs, often interconnecting them and resembling one "package" of organs
5	Visible lesions to the carcass after evisceration	Affecting almost every internal organ (viscera) in the cranio-dorsal direction. In large areas, the peritoneum is thickened and opaque, and the fillet may carry focal, prominent and/or heavily pigmented lesions or granuloma
6	Major lesions to the carcass after evisceration	More pronounced than score 5, often with a considerable amount of melanin. Viscera unremovable without causing damage to the integrity of the fillet

Figure 1: Regions for scoring local reactions



Region 1 = around injection site

Region 2 = posterior abdomen

Region 3 = anterior abdomen involving liver, gonads etc



Melanin Scoring

Table 2: Melanin scoring (visceral)

Score	Melanin on viscera	Severity
0	No visible melanin	None
1	Small amounts hardly noticeable	Little often not noticed
2	Moderate amounts, spots and or distributed all over viscera	Noticeable expected as normal reactions
3	Large amounts all over viscera and or significant spots	More melanin than expected, not expected to influence on carcass quality

Table 3: Melanin scoring (peritoneal)

Score	Melanin on abdominal wall	Severity
0	No visible melanin on peritoneum covering abdominal walls	None
1	Small amounts of melanin that can easily be removed by scraped away by the scalpel. Even small spots at site of injection should qualify for score ¹	Not expected to influence on carcass quality at harvest
2	Distributed over larger areas of abdominal walls and can still be easily removed by scraping with the scalpel. It can also be smaller more localized spots that cannot be removed by scraping	May reduce carcass quality at harvest
3	More and distributed over larger areas of the abdominal wall. Moderate and larger spots that cannot easily be removed by scraping with the scalpel	Reduce carcass quality at harvest

References:

Midtlyng et al (1996), Midtlyng, P. J., Reitan, L. J. & Speilberg, L. (1996). Experimental studies on the efficacy and side-effects of intraperitoneal vaccination of Atlantic salmon (*Salmo salar* L.) against furunculosis. Fish & Shellfish Immunology 6, 335-350

For more information please contact us at fishhealth@msd.com
Tel: 0370 060 3380 • fishhealth@msd.com

www.msd-animal-health.co.uk