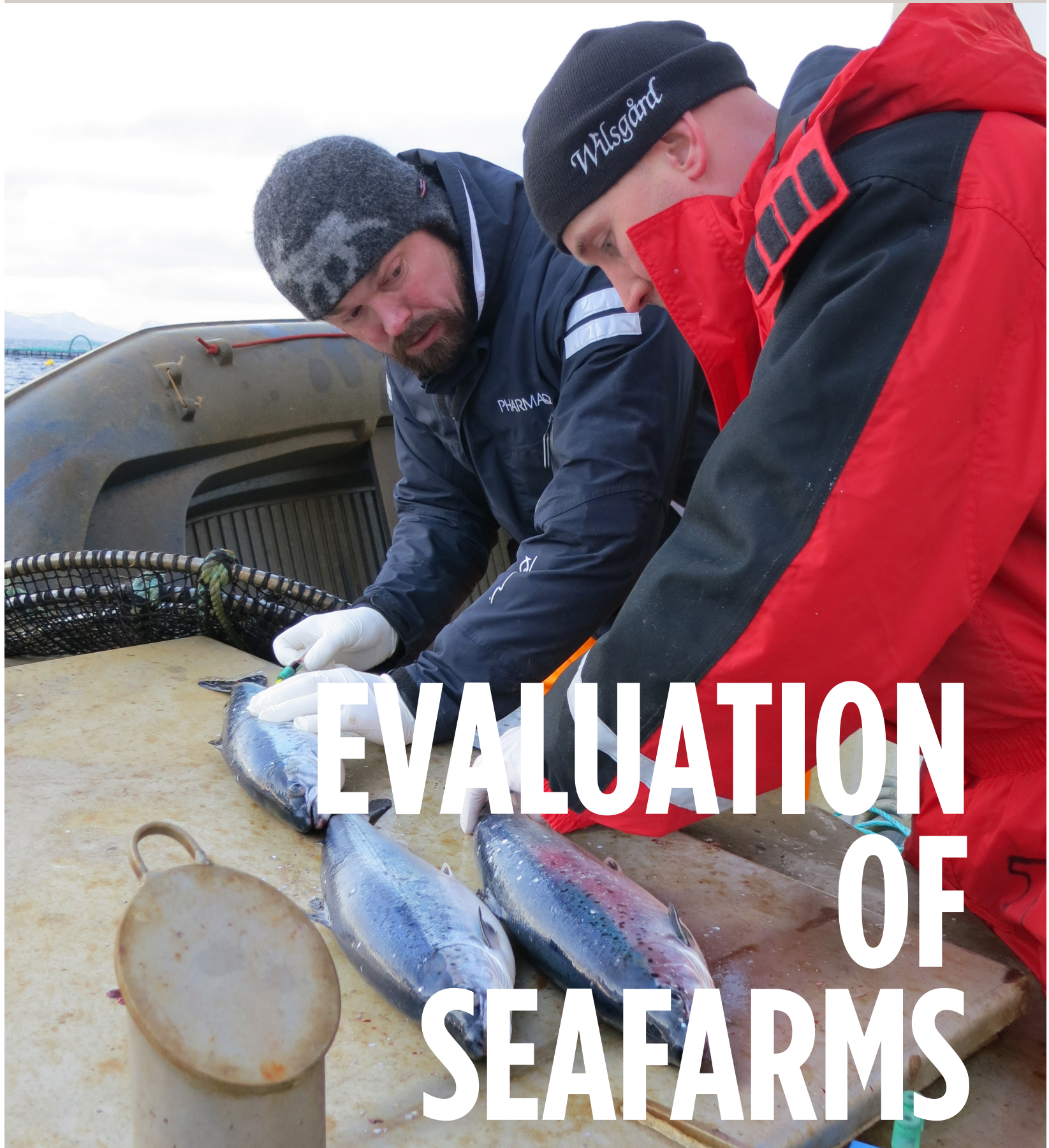


PHARMAQ



EVALUATION OF SEAFARMS

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zoetis

Manual for evaluation at sea farms

Year class

Sea transfer	0+, 1+, 1,5+
Year	2007, 2008

Deformities

0	None	
1	Visible deformities	Specify type of deformity (spinal, jaw etc)

Cataract

0	Normal
1	Pinpoint → 10%
2	10-50%
3	50-75%
4	75-100%

Maturation

0	Normal	No maturation
1	Starting maturation	Gonads has started to develop
2	Mature	Maturation visible both outside and inside

Adhesions

Recorded under "T"(Total), or recorded at each location 1,2 and 3, where the location with the highest adverse reaction will be used as the "Total average score"

0	No visible lesions in the abdominal cavity
1	Very slight adhesions seen as tiny fibrous tissue strands. Most frequently localised close to the injection site. Very easily detached.
2	More clearly defined fibrous threads connecting different organs or viscera to peritoneum in limited areas. The adhesions are easily detached and organs are intact following detachment.
3	Firm adhesions connecting some or several organs. Viscera may be firmly attached to the parietal peritoneum, but detachment during autopsy does not cause damage to the different organs or peritoneum/muscle tissue. May form a grayish, fibrous film covering organs. Swim bladder may be attached to the viscera.
4	Similar to score 3 but more pronounced adhesions in and around organs. Interconnecting organs referred to as an "organ package" may occur, where the organs appear as one unit, bound together by fibrous connective tissue. Smaller granulomas may be present in or around the organs. Separation of organs attached via fibrous connective tissue will result in organ damage. Viscera cannot be detached from the parietal peritoneum without damaging it.
5	Extensive lesions affecting several organs in the abdominal cavity. In large areas, the peritoneum is thickened and opaque. Larger granulomas in viscera, together with extensive bindings between viscera and peritoneum. The peritoneum and fillet/muscle is damaged when removing the viscera. The side effects are unacceptable with regard to welfare.
6	Even more pronounced than 5. Viscera cannot be removed without severe damage to the muscle fillet. The side effects are unacceptable with regard to welfare.

Localizations of adhesions in the abdominal cavity

Loc. 1:	Anterior and anterior-dorsal parts of the abdominal cavity including oesophagus, liver, and anterior parts of the swim bladder.
Loc. 2	Posterior and posterior-dorsal parts of the abdominal cavity including the hind gut.
Loc. 3	Ventral region of the abdomen, close to the recommended injection site. Areas not included in loc. 1 and loc. 2.

Melanin scale, viscera

0	No melanin in the abdominal cavity
1	Some faint melanin or small spots affecting small areas of the viscera
2	Moderate amounts on or within one or more organs
3	Extensive melanin deposits on viscera

Vaccine residues

0	No vaccine residues
1	Vaccine residues are enclosed in vesicles. Only small amounts of residues.
2	Larger amounts of vaccine residues enclosed in vesicles and often small or moderate amounts of free flowing vaccine.
3	Extensive quantities of free flowing vaccine. Appears "recently vaccinated".

Melanin scale, parietal peritoneum / muscle

0	No melanin
1	Small amounts. Spot(s) or faint shading affecting small areas. Easy to remove.
2	Moderate amounts. The melanin can be manually removed at slaughter without severely damaging the peritoneum. May cause downgrading of final product.
3	Extensive melanin deposits on the peritoneum and into the fillet. Cannot be removed without severely damaging peritoneum/muscle/fillet. Will result in significant downgrading of the final product.

Tapeworm

0	Absent	
1	Present	May be used to indicate weight loss due to tape worms.

Evaluation at sea farms

Company				Date	
Site		Site no.		Examined by	
Cage / tank		No. of fish		Hatchery (group/tank)	
Vacc. date		Weight		Temp.	Sampling method
Sea transfer		Weight		Temp.	Temp. at sampling
Vaccine		Batch		Vacc. method	ID no./ Trial no.

Fish no.	Vaccine code	Length (cm)	Weight (g)	Maturation	Cataract left	Cataract right	Deformations	Adhesions (0-6)	Region 1	Region 2	Region 3	Melanin organs (0-3)	Melanin fillet (0-3)	Vaccine residues (0-3)	Tapeworm (0/1)	Comments
1																
2																
3																
4																
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