



## **Surveillance program with focus on notifiable diseases**

Sampling plan

**2026**

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## Compulsory notification and general surveillance

On behalf of the Icelandic Food and Veterinary Authority (MAST), District Veterinary Officers are responsible for monitoring general animal health within each district. For diseases in fish, molluscs and crustaceans, the Veterinary Officer for Fish Diseases shall carry out this responsibility.

All private practicing veterinarians are obligated to be alert and to report any suspicion regarding the diseases to MAST. Furthermore, according to Act No. 25/1993 *on animal diseases and measures to control them*, any person who has a reason to believe that an animal is suffering from an infectious disease covered by the legislation, shall immediately report this to any veterinarian who can be reached or to the police, who shall immediately contact a veterinarian. If a veterinarian sees a reason to act, he/she shall immediately take steps to confirm the diagnosis and prevent the disease from spreading. If testing shows or a suspicion arises of an infectious disease, previously unknown in the country or specified in Regulation No. 52/2014 *on notifiable and reportable animal diseases*, MAST shall immediately be informed, and precautionary biosecurity measures applied.

## Listed fish diseases

### 1. Serious notifiable diseases

Transmissible diseases which have the potential for very serious and rapid spread, and which are of serious socio-economic importance in the international trade of live fish, eggs and gametes. Serious notifiable diseases will be met with stamping out procedures as these diseases are considered as dangerous and exotic in Iceland. Measures are taken immediately, and reports submitted to the OIE and EU.

**Table 1.** *Serious notifiable diseases*

<b>EHN</b>	Epizootic haematopoietic necrosis <i>Iridoviridae</i>
<b>OMV</b>	<i>Herpesvirus salmonis</i> / <i>H. scophthalmi</i> <i>Oncorhynchus masou</i> virus disease
<b>IHNV</b>	Infectious haematopoietic necrosis <i>Rhabdoviridae</i>
<b>IPNV</b>	Infectious pancreas necrosis <i>Birnaviridae</i>
<b>ISAV</b>	Infectious salmon anemia <i>Orthomyxoviridae</i>
<b>Gyrodactylosis</b>	<i>Gyrodactylus salaris</i>
<b>SVC</b>	Spring viraemia of carp <i>Rhabdoviridae</i>
<b>VHS</b>	Viral haemorrhagic septicaemia <i>Rhabdoviridae</i>
<b>VNN</b>	Viral nervous necrosis <i>Nodaviridae</i>

## 2. Other notifiable diseases

Transmissible diseases which are considered to be of socio-economic importance within the country and which are significant in the international trade of live fish, eggs and gametes. Measures are variable, from stamping out to general vaccination.

**Table 2.** Other notifiable diseases

	Erythrocytic inclusion body syndrome (EIBS) <i>Togaviridae</i>
<b>PKD</b>	Proliferative kidney disease
	Coldwater vibriosis <i>Vibrio salmonicida</i>
	Whirling disease <i>Myxobolus cerebralis</i>
	Furunculosis <i>Aeromonas salm. spp. salmonicida</i>
	Salmon louse infection <i>Lepeophtheirus salmonis</i>
	Marine louse infection <i>Caligus elongatus</i>
<b>BKD</b>	Bacterial kidney disease <i>Renibacterium salmoninarum</i>
<b>PD/SAV</b>	Pancreas disease <i>Togaviridae</i>
	Piscirickettsiosis <i>Piscirickettsia salmonis</i>
<b>ERM</b>	Enteric red mouth, Yersiniosis <i>Yersinia ruckeri</i>
	Systemic spironucleosis <i>Spiroplasma eridanum</i>
	Swimbladder nematode of eel <i>Anguillicola crassus</i>

## 3. Reportable diseases

Diseases registered once a year, no special measures.

**Table 3.** Reportable diseases

	Mycobacteriosis <i>Mycobacterium marinum</i>
	Ulcer disease <i>Aeromonas salm. spp. achromogenes</i>
	Epitheliocystis <i>Chlamydia</i> spp.
<b>UDN</b>	Ulcerative dermatic necrosis
<b>VEN</b>	Viral erythrocytic necrosis <i>Iridoviridae</i>
	Winter ulcers <i>Moritella viscosa</i>
	Vibriosis <i>Vibrio anguillarum</i>
	Papillomatosis <i>Herpesviridae</i>

## Introduction

All Icelandic fish farms have been included in the official national health control program since 1985. The surveillance also includes farms raising wild salmonids for restocking of rivers and lakes. This surveillance program has a risk-based approach. Infections which can be latent and diseases which do not have clear clinical symptoms are monitored by routine sampling. Fish farms are selected at random, but the main focus is put on the broodfish farms.

From 1993 European Union (EU) Directives on disease control measures have been followed. The surveillance is partly by regular on-site health inspections, under the supervision of the Veterinary Officer for Fish Diseases, and partly by laboratory work conducted at the National Reference Fish Disease Laboratory at Keldur in Reykjavík (NRL). The NRL in Reykjavík has a close inter-laboratory collaboration with the EU Reference Laboratory on virus diseases in Denmark. In addition, a big part of the diagnostic services is performed by the Food, Veterinary- and Environmental Agency, Department of Fish and Animal Diseases in Torshavn, Faroe Islands and to some extent also by the PatoGen Analyse A/S in Norway. All used laboratories are approved and accredited by an ILAC accredited agency to ISO 17025.

The sampling and diagnostic methods regarding viral examination has been along the lines given in Commission Regulation 2020/689/EC, including relevant amendments. Screening of important virus agents causing serious infectious diseases like *Infectious salmon anaemia* (ISA), *Pancreas disease* (PD/SAV), *Infectious pancreatic necrosis* (IPN), *Viral haemorrhagic septicaemia* (VHS), *Infectious haematopoietic necrosis* (IHN), *Epizootic Haematopoietic necrosis* (EHN) and *Cardiomyopathy syndrome* (CMS/PMCV) have been a big part of the surveillance program. Until spring 2009 the diagnostic methods were mainly based on EPC, BF-2 and CHSE-214 cell-lines in the routine screening, in addition with clinical signs, gross pathology and histopathological examination of vital organs. Since 2009 more and more routine samplings from wild and farmed fish are analysed by qPCR technique in addition to regular viral culture on EPC, BF-2 and ASK cell-lines.

From 1991 to 2025, the ELISA method was used for the detection of BKD (*Renibacterium salmoninarum*). From 2025 onwards, qPCR has been applied, with sequencing used for confirmation. Since 2009 more and more routine samplings from farmed and wild fish are analysed by qPCR technique.

## Monitoring of certain fish diseases by systemic sampling of farmed and wild fish population in Iceland

### 4. Viral haemorrhagic septicaemia (VHS)

VHS is a notifiable disease, according to the Icelandic Act no. 25/1993 *on animal diseases and measures to control them*. Routine targeted samplings have been performed since 1985.

VHS-virus was for the first time detected in lumpfish of wild origin in Iceland in October 2015. The detection was made in a marine research farm owned by the Icelandic state and had no connection to the salmonid aquaculture. The lumpfish VHS-virus was sequenced by the European Reference Laboratory for Fish Diseases in Denmark and blasted towards other known genotypes. The results showed a totally new appearance of VHSV subtype, most likely a highly host specific and a unique variant for lumpfish.

Iceland obtained formally disease-free status for VHS by the fish health authority of the European Union in 2004. Following the virus detection in the wild lumpfish in 2015 the disease-free status was temporarily suspended. After stamping out of the lumpfish in the respective landbased research farm, Icelandic authorities started up with a new process of achieving VHS-free status. At that time, the authority decided to declare the three independent compartments of the broodfish farms breeding Atlantic salmon in the country. This recognition was confirmed on 2 May 2016. Since 2017, VHS samples have also been analyzed by qPCR, in addition to culture on cell-lines (table 4 and 7).

#### 4.1. Sampling plan for VHS in 2026

1.000 samples tested by qPCR and 1.000 samples examined with cultured cell-lines.

**Table 4.** Number of samples analyzed for VHSV (qPCR):

Year	Number of <u>individuals</u> sampled	Number of <u>farms</u> sampled	Number of <u>negative</u> samples	Number of <u>positive</u> samples
2016	462	5	462	0
2017	614	5	614	0
2018	1.094	5	1.094	0
2019	931	5	931	0
2020	1.253	4	1.253	0
2021	637	3	637	0
2022	802	7	802	0
2023	942	7	942	0
2024	952	7	952	0
2025	1.107	4	1.107	0

Diagnostic method: qPCR.  
Laboratory: Institute for Experimental Pathology at Keldur in Reykjavik, Iceland and Food & Veterinary Agency, Department of Fish & Animal Diseases in the Faroe Islands.

## 5. Infectious haematopoietic necrosis (IHN)

IHN has never been detected in Iceland. It is a notifiable disease, according to the Icelandic Act no. 25/1993 *on animal diseases and measures to control them*.

Routine targeted samplings have been performed since 1985, both from wild and farmed salmonids. Iceland obtained formally disease-free status for IHN by the fish health authority of the European Union in 2004. Since 2017, IHN samples have also been analyzed by RT-qPCR, in addition to culture on cell-lines (table 5 and 7).

### 5.1. Sampling plan for IHN in 2026

500 samples tested by qPCR and 1.000 samples examined with culturing on cell-lines.

**Table 5.** *Number of samples analyzed for IHNV (qPCR):*

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2017	22	2	22	0
2018	636	3	636	0
2019	228	3	228	0
2020	481	3	481	0
2021	209	3	209	0
2022	483	6	483	0
2023	583	4	583	0
2024	432	3	432	0
2025	626	3	626	0

Diagnostic method: qPCR.  
 Laboratory: Institute for Experimental Pathology at Keldur in Reykjavik, Iceland and Food & Veterinary Agency, Department of Fish & Animal Diseases in the Faroe Islands.

## 6. Infectious pancreatic necrosis (IPN)

IPN-virus has been detected, but still restricted in its distribution to localized marine environments. It is a notifiable disease, according to the Icelandic Act no. 25/1993 *on animal diseases and measures to control them*.

Aquatic birnavirus was for the first time isolated from Atlantic halibut (*Hippoglossus hippoglossus*) in 1999, but in late 2019 an avirulent marine IPNV was for the first time detected in farmed Atlantic salmon in a sea-cage farm of the east coast of Iceland. There has never been evidence of IPN disease at freshwater sites.

Routine targeted samplings have been performed since 1985 and test results from tens of thousands of samples show no indication of disease at freshwater sites. Consequently, Iceland is regarded as being free from IPN. Since 2010 samples have been analyzed for IPN on cell lines and qPCR (table 6 and 7).

## 6.1. Sampling plan for IPN in 2026

3.000 samples tested by qPCR and aprox. 1.000 samples tested by culturing on cell-lines.

**Table 6.** *Number of samples analyzed for IPNV (qPCR):*

Year	Number of individuals sampled	Number of farms sampled	Number of positive farms
2010	928	4	0
2011	3.450	4	0
2012	1.009	3	0
2013	332	2	0
2014	0	0	0
2015	2.585	2	0
2016	824	2	0
2017	2.030	3	0
2018	1.459	6	0
2019	912	6	1*
2020	1.355	5	0
2021	2.422	10	1*
2022	5.751	11	0
2023	4.719	9	0
2024	3.097	6	0
2025	4.838	6	0

\* IPN-virus positive Atl. Salmon in marine farm (avirulent without any clinical symptoms and mortality).  
Laboratory: Department of Fish and Animal Diseases in the Faroe Islands and Keldur in Reykjavik, Iceland.

**Table 7.** *Number of samples analyzed for VHSV, IHNV, and IPNV by cell culture since 1985. Cell-culture analysis additionally included screening for ISAV, EHNV, and OMV:*

Year	Number of individuals sampled	Number of farms sampled	Number of positive farms
1985	1.214	-	0
1986	5.591	-	0
1987	9.121	-	0
1988	10.503	-	0
1989	4.854	-	0
1990	6.831	-	0
1991	5.603	-	0
1992	2.763	-	0
1993	949	-	0
1994	610	16	0
1995	775	18	0
1996	601	17	0
1997	945	21	0
1998	806	19	0
1999	860	17	0
2000	696	15	0
2001	706	15	0
2002	533	12	0
2003	885	13	0
2004	1.109	16	0
2005	725	13	0
2006	524	13	0
2007	669	16	0
2008	812	15	0

2009	963	15	0
2010	1.220	13	0
2011	310	12	0
2012	335	12	0
2013	394	12	0
2014	432	12	0
2015	753	13	1*
2016	1.155	12	0
2017	1.127	13	0
2018	966	12	0
2019	1.178	13	1**
2020	1.509	11	0
2021	1.046	13	0
2022	935	12	0
2023	1.002	11	0
2024	836	13	0
2025	5612	18	0

\* VHS-virus positive lumpfish of wild origin in 1 farm.  
 \*\* IPN-virus positive Atl. Salmon in 1 marine farm (avirulent without any clinical symptoms and mortality).  
 Diagnostic method: EPC, BF-2, CHSE-214 and ASK cell-lines are used routinely.  
 Laboratory: Institute for Experimental Pathology at Keldur in Reykjavik, Iceland.

## 7. Infectious salmon anaemia (ISA)

Infection with ISAV is listed by the World Organisation for Animal Health (WOAH), and ISAV HPR-deleted (HPR-del) is a notifiable disease within the EU and under Icelandic Act No. 25/1993 on *Animal Diseases and Measures to Control Them*.

There are two main types of ISAV, one virulent type with varying pathogenicity associated with ISA outbreaks termed HPR-deleted ISAV (ISAV HPR-del) and the other type regarded as non-pathogenic, causing subclinical infections, termed ISAV HPR0. The non-pathogenic type (ISAV HPR0) is not notifiable in European countries. The disease was described for the first time in Atlantic salmon (*Salmo salar*) in Norway in 1984 and has since been reported in several countries: UK, USA, Canada, Faroe Island, Chile and now also in Iceland.

ISA (HPR-del) was for the first time detected in a sea-cage farm on the **Eastfjords** of Iceland in late November 2021. The second outbreak occurred within the same company, but in a neighboring fjord system in May 2022. Infection tracing and sequencing of the virus revealed that the first outbreak was a so-called primary outbreak, due to a mutation of a local non-pathogen ISAV-HPR0 variant. The virus isolates from the second outbreak were identical to previously sequenced isolates from the first outbreak. The salmon in the affected area was stamped out and for security reasons the fish in the whole fjord system were slaughtered and the area put on at least 90 days following period.

Routine targeted sampling for qPCR analyses have been performed since 2009 and for culture on CHSE-214 and ASK cell-lines since 1985.

Icelandic Atlantic salmon broodfish farms are formally declared free of ISA and approved by the fish health authority of the European Union (See Table 8 for broodfish farms and Table 9 for all other salmon smolt and on-growing farms).

## 7.1. Sampling plan for ISAV for 2026

12.000 samples in Benchmark Genetics Iceland hf. and 2.000 samples in other farms (qPCR).

**Table 8.** Number of samples from the three independent compartments of Benchmark Genetics Iceland analyzed for ISAV:

Year	Number of <u>individuals</u> sampled	Number of <u>HPR0</u> positive samples*	Number of <u>HPR-deleted</u> positive samples
2011	8.206	67*	0
2012	8.230	52*	0
2013	10.777	118*	0
2014	10.310	60*	0
2015	13.566	49*	0
2016	12.794	39*	0
2017	12.396	31*	0
2018	10.246	55*	0
2019	6.793	12*	0
2020	6.491	4*	0
2021	7.681	21*	0
2022	11.722	25*	0
2023	12.063	9*	0
2024	13.253	3*	0
2025	10.733	8*	0

\* Low/non-pathogen ISAv (HPR0).  
Diagnostic method: qPCR.  
Laboratory: Institute for Experimental Pathology at Keldur in Reykjavik, Iceland and Food & Veterinary Agency, Department of Fish & Animal Diseases in the Faroe Islands.

**Table 9.** Number of samples from smolt and on-growing farms analyzed for ISAV (qPCR):

Year	Number of <u>individuals</u> sampled	Number of <u>farms</u> sampled	Number of <u>HPR0</u> positive samples*	Number of <u>HPR-deleted</u> positive farms**
2014	45	2	0	0
2015	585	5	0	0
2016	633	5	0	0
2017	900	5	0	0
2018	571	5	0	0
2019	598	5	0	0
2020	587	5	0	0
2021	722	9	5* + Eastfjords	1**
2022	5.500	18	25* + Eastfjords	1**
2023	2.176	17	24*	0
2024	2.106	19	5*	0
2025	2.331	22	30*	0

\* Low/non-pathogen ISAv (HPR0).  
\*\* ISA HPR-deleted positive Atl. salmon in sea-cage farm in the Eastfjords (Action taken: Stamping-out of the whole farming area and fallowing of the site and the whole fjord system for at least 90 days).  
Laboratory: Food and Veterinary Agency, Department of Fish and Animal Diseases in the Faroe Islands, Institute for Experimental Pathology at Keldur in Reykjavik, Iceland and PatoGen Analyse A/S in Norway.

## 8. Pancreas disease (PD/SAV)

PD/SAV has never been detected in Iceland. It is a serious notifiable disease, according to Act no. 25/1993.

Routine targeted samplings have been performed since May 2009, with a focus on salmon broodstock given eggs for export (See Table 10).

### 8.1. Sampling plan for PD/SAV for 2026

3.000 samples tested by qPCR.

**Table 10.** Number of samples analyzed for *PD/SAV* (qPCR):

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2009	1.908	2	1.908	0
2010	4.504	2	4.504	0
2011	8.206	3	8.206	0
2012	7.530	2	7.530	0
2013	8.506	2	8.506	0
2014	8.772	3	8.772	0
2015	9.247	4	9.247	0
2016	5.644	3	5.644	0
2017	5.074	4	5.074	0
2018	7.390	5	7.390	0
2019	4.488	6	4.488	0
2020	4.323	5	4.323	0
2021	3.437	11	3.437	0
2022	3.362	10	3.362	0
2023	3.447	6	3.447	0
2024	3.196	5	3.196	0
2025				

Laboratory: Food and Veterinary Agency, Department of Fish and Animal Diseases in the Faroe Islands and Institute for Experimental Pathology at Keldur in Reykjavik, Iceland.

## 9. Cardiomyopathy syndrome / Piscine myocarditis virus disease (CMS/PMCV)

PMCV has never been detected in Iceland.

It is a serious notifiable disease, according to Act no. 25/1993. Routine targeted samplings have been performed since August 2013, with a focus on salmon broodstock given eggs for export (See Table 11).

### 9.1. Sampling plan for CMS/PMCV for 2026

3.000 samples tested by qPCR.

**Table 11.** *Number of samples analyzed for PMCV (qPCR):*

Year	Number of <u>individuals</u> sampled	Number of <u>farms</u> sampled	Number of <u>negative</u> samples	Number of <u>positive</u> samples
2013	908	3	908	0
2014	4.854	6	4.854	0
2015	3.369	8	3.369	0
2016	1.689	7	1.689	0
2017	3.094	5	3.094	0
2018	6.497	6	6.497	0
2019	3.286	5	3.286	0
2020	3.237	3	3.237	0
2021	2.708	4	2.708	0
2022	3.083	5	3.083	0
2023	2.747	5	2.747	0
2024	2.662	5	2.662	0
2025	4.116	4	4.116	0

Laboratory: Food and Veterinary Agency, Department of Fish and Animal Diseases in the Faroe Islands and Institute for Experimental Pathology at Keldur in Reykjavik, Iceland.

## 10. Bacterial kidney disease (BKD)

Bacterial kidney disease occurs sporadically. It is a notifiable disease, according to Act no. 25/1993. Routine samplings have been performed since 1985.

Some countries within the EEA have been given approval for national measures for BKD by the fish health authority of the European Union.

In order to export salmon eggs to these countries, targeted surveillance with regular sampling for BKD must be conducted in an ISA-free zone (See Tables 12 and 13).

### 10.1. Sampling plan for BKD in 2026

Farmed salmonoids: aprox. 3.000 samples tested by qPCR

Wild salmonoids: aprox. 600 samples tested by qPCR.

**Table 12.** *Number of samples from farmed salmonids analyzed for BKD:*

Year	Number of <u>individuals</u> sampled	Number of <u>farms</u> sampled	Number of <u>positive</u> farms
1991	435	12	0
1992	558	13	1
1993	453	14	1
1994	522	12	4
1995	431	8	1
1996	594	8	0
1997	337	10	0
1998	362	8	1
1999	316	7	0
2000	361	6	0
2001	312	6	0
2002	357	7	1
2003	713	6	1

2004	1.306	8	3
2005	2.052	16	3
2006	3.048	19	4
2007	3.169	16	1
2008	3.134	11	0
2009	3.930	19	0
2010	2.839	12	0
2011	2.026	12	2
2012	1.399	12	0
2013	1.316	10	0
2014	1.985	13	2
2015	1.994	12	0
2016	1.396	18	3
2017	3.800	23	2
2018	5.550	25	1
2019	5.464	21	0
2020	5.196	21	0
2021	3.790	26	1
2022	4.567	23	0
2023	5.326	25	1
2024	6.204	30	4
2025	6.593	35	5

Diagnostic method: ELISA (enzyme-linked immunosorbent assay) and qPCR.  
 Laboratory: Institute for Experimental Pathology at Keldur in Reykjavik, Iceland, Food and Veterinary Agency, Department of Fish & Animal Diseases in the Faroe Islands and PatoGen Analyse A/S in Norway.

**Table 13.** Number of samples from wild salmon analyzed for **BKD**:

Year	Number of individuals sampled	Number of rivers sampled	Number of positive samples	Number of positive rivers
1991	569	49	8	5
1992	470	55	13	8
1993	403	50	3	3
1994	333	38	2	2
1995	349	38	4	2
1996	253	38	1	1
1997	407	45	0	0
1998	291	37	0	0
1999	240	40	0	0
2000	242	38	1	1
2001	602	38	1	1
2002	530	49	3	2
2003	827	50	4	2
2004	1.279	51	35	6
2005	1.160	48	7	1
2006	1.359	52	157	26
2007	1.757	54	174	32
2008	1.775	48	463	35
2009	1.370	44	340	33
2010	905	38	87	15
2011	929	33	97	20
2012	620	25	38	10
2013	664	29	23	13
2014	625	24	13	6
2015	639	18	13	4
2016	767	14	27	3
2017	863	14	16	4
2018	666	15	39	9

2019	543	15	5	3
2020	728	18	10	4
2021	797	17	16	6
2022	634	21	6	4
2023	665	22	15	4
2024	592	18	19	4
2025	626	15	1	1

Diagnostic method: ELISA (enzyme-linked immunosorbent assay).  
Laboratory: Institute for Experimental Pathology at Keldur in Reykjavik, Iceland.

## 11. Enteric redmouth disease (ERM)

Enteric redmouth disease (ERM) is endemic in the wild environment. ERM is a notifiable disease, according to Act no. 25/1993.

Routine targeted samplings have been performed since 2015 with a focus on salmon broodstock given eggs for export, but also in a smolt farm with RAS system (See Table 14).

### 11.1. Sampling plan for ERM for 2026

Aprox. 1.500 samples tested by qPCR.

**Table 14.** Number of samples analyzed for *ERM – Enteric redmouth disease (qPCR)*:

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2015	31	2	31	0
2016	496	2	496	0
2017	1.263	2	1.263	0
2018	1.444	2	1.444	0
2019	943	2	943	0
2020	1.235	2	1.235	0
2021	2.214	2	2.214	0
2022	3.811	4	3.811	0
2023	2.108	3	2.108	0
2024	1.519	3	1.519	0
2025	1.546	5	1.546	0

Laboratory: Food and Veterinary Agency, Department of Fish and Animal Diseases in the Faroe Islands and Institute for Experimental Pathology at Keldur in Reykjavik, Iceland.

## 12. Piscirickettsiosis / Salmon rickettsial septicaemia (SRS)

*Piscirickettsia salmonis* has never been detected in Iceland.

It is a notifiable disease, according to Act no. 25/1993. The bacteria has been a problem in Atlantic salmon farming in some areas in Norway and Chile.

Some targeted samplings have been performed in the Icelandic broodfish farms since 2018 on a demand from some few customers of eggs and a foreign research company that must make a clear claim about all infectious agents used in infectious disease research and vaccine development (See Table 15).

### 12.1. Sampling plan for SRS for 2026

Aprox. 200 samples tested by qPCR.

**Table 15.** Number of samples analyzed for *SRS – Piscirickettsiosis* (qPCR):

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2018	12	2	12	0
2019	23	2	23	0
2020	20	2	20	0
2021	37	2	37	0
2022	19	2	19	0
2023	70	2	70	0
2024	220	2	220	0
2025	205	2	205	0

Laboratory: Food and Veterinary Agency, Department of Fish and Animal Diseases in the Faroe Islands and Institute for Experimental Pathology at Keldur in Reykjavik, Iceland.

### 13. Gyrodactylosis (*Gyrodactylus salaris*)

*Gyrodactylus salaris* has never been detected in Iceland. It is a serious notifiable disease, according to Act no. 25/1993.

Approximately 400 salmon juveniles are microscopically examined annually around the country. The official surveillance also includes farms raising wild salmonids for restocking of rivers and lakes. As a request from an Asian customer of eggs, some targeted qPCR-samplings are tested in the Icelandic broodfish farms from 2021 onwards (See Table 16).

#### 13.1. Sampling for *Gyrodactylus salaris* for 2026

40 samples tested by qPCR.

**Table 16.** Number of samples analyzed for *Gyrodactylus salaris* (qPCR):

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2021	26	2	26	0
2022	56	3	56	0
2023	42	3	42	0
2024	25	3	25	0
2025				

Laboratory: Food and Veterinary Agency, Department of Fish and Animal Diseases in the Faroe Islands and Institute for Experimental Pathology at Keldur in Reykjavik, Iceland.

### 14. Whirling disease (*Myxobolus cerebralis*)

Whirling disease has never been detected in salmon in Iceland. It is a notifiable disease, according to Act no. 25/1993.

Due to requests from some buyers of eggs in the USA and Asia, some targeted qPCR-samplings are tested in the Icelandic broodfish farms from 2023 onwards (See Table 17).

#### 14.1. Sampling for *Myxobolus cerebralis* for 2026

Aprox. 200 samples tested by qPCR.

**Table 17.** *Number of samples analyzed for Myxobolus cerebralis (qPCR):*

Year	Number of <u>individuals</u> sampled	Number of <u>farms</u> sampled	Number of <u>negative</u> samples	Number of <u>positive</u> samples
2023	38	3	38	0
2024	264	3	264	0
2025	298	2	298	0

Laboratory: Food and Veterinary Agency, Department of Fish and Animal Diseases in the Faroe Islands and Institute for Experimental Pathology at Keldur in Reykjavik, Iceland.

## 15. Furunculosis / *Aeromonas salm. Spp. salmonicida (A.s.s)*

Furunculosis is a notifiable disease, according to Act no. 25/1993.

A.s.s. was diagnosed in Iceland in 1995, in wild salmon in the Elliðaá rivers, where it caused heavy losses. Following the diagnosis, the Fish Disease Committee decided to revoke all exemptions allowing the release of ranching salmon into rivers without native salmon populations. As a result, such transfers were completely suspended in 1996. No new cases have appeared in Iceland since then.

**Table 18.** *Number of samples analyzed for A.s.s. (qPCR)*

Year	Number of <u>individuals</u> sampled	Number of <u>farms</u> sampled	Number of <u>negative</u> samples	Number of <u>positive</u> samples
2025	389	4	389	0

Laboratory: Food and Veterinary Agency, Department of Fish and Animal Diseases in the Faroe Islands and Institute for Experimental Pathology at Keldur in Reykjavik, Iceland.

## 16. Epizootic haematopoietic necrosis (EHN)