

PatoGen encourages all customers to use our registration portal PatoLink. This ensures that you as a customer get the best conditions, that information and thus quality is secured, and that we save the environment and nature.



REQUISITION FORM: SAMPLES TO PATOGEN

Fields marked with * are mandatory. Optional fields must be filled if you want the information in the final report. For mandatory analyses all fields must be filled.

CUSTOMER DETAILS

Company* (formal report recipient)		Invoice company* (if different from company)	
Sampler* (full name, receives report)		Invoice contact* (full name)	
Sampler* (email and mobile)		Invoice reference (ex. PO number)	
Report recipient (full name)		Report recipient (email)	
Project number	NB: If the samples are part of a project with PatoGen, the project number must be filled out. If the project number is missing, the samples will be invoiced as normal.		

SAMPLING DETAILS

Sampling date*		Site number*	
Species*		Site name	
Fish group		Breed	
Generation		Production	<input type="radio"/> Sea water <input type="radio"/> Fresh water <input type="radio"/> Brood stock
Vaccinated fish?*	<input type="radio"/> Yes <input type="radio"/> No If yes, which vaccine?		
Water environment*	<input type="radio"/> Salt water <input type="radio"/> Fresh water <input type="radio"/> Fresh water with salt water addition		

REPORTING OF STATUTORY ANALYSES

For statutory analyses, and with suspicion of serious/listed diseases, PatoGen is required to notify the Norwegian Food Safety Authority of positive analyses. In cases like these, PatoGen will inform the customer first. For statutory analyses PatoGen is also required to send monthly summaries of the analysis results to the national reference laboratory. We refer to the at any time current regulations of the Ministry of Trade, Industry and Fisheries.

GENERAL DELIVERY CONDITIONS

See patogen.com for our general terms of delivery, sampling guides, recommended area of use for analysis and more. Haste samples must be agreed upon in advance, and must be given within time limits. You can modify on your order's delivery time until the samples are received and confirmed at our laboratories. The requisition form is changed/updated on a regular basis. The newest and valid version of the requisition form is always available at patogen.com.

Regarding deliveries for the various services in PatoGen, see below the respective pages.

Reservation against use in research, commercial and operational purposes in anonymized form.

NOTE

SIGNATURE

Date and sampler's signature

PatoGen | (+47) 70 11 69 00 | post@patogen.no | patogen.com | Version 3.9 | Valid from 28.02.25

Received:	Water:	Histology:	PCR:
Tray:	PatoGen return note: Yes No	Biochemistry:	Bacteriology:
			Control:

This page should only be filled when ordering PCR

DELIVERY PCR

- Normal (5 working days - 4 when ordering in Patolink)
- Haste 1 (1 working day)
- Haste 2 (2 working days)

Haste 1 must be agreed upon in advance on 70 11 69 00 / post@patogen.no.
 Haste 1 requires delivery of samples before 09.00 and entails a 100 % additional cost.
 Haste 2 requires delivery of samples before 12.00 and entails a 50 % additional cost.

OTHER SERVICES

Storage of samples		Tissue	
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ADDITIONAL INFORMATION

PATOSAFE (PCR ANALYSES)

Check left for wanted analysis and fill in which tissue you want the analysis to be performed on to the right. Tissue is a mandatory field. If tissue is not filled, optimal tissue will be chosen from recommended tissue in the sampling guide. The list below shows short names for the analyses. We refer to the analysis overview for the full analysis name, in addition to which geographical areas and species the analyses are recommended for. See www.patogen.com for analysis overview and sampling guide.

Wanted analysis:	Tissue*:
AGD	
BKD**	
Branchiomonas	
Costia - necator	
Costia - salmonis	
Flavobacter**	
Francisella**	
Gyro	
IHNV	
IPNV**	
ISAV**	
ISAV-HPRO**	
Moritella viscosa	
Mycobacterium ^{2,10}	
Nodavirus**	
Paramyxovirus ²	
Paranucleospora	
Parvicapsula	

Wanted analysis:	Tissue*:
Pasteurella skyensis O2	
Pasteurella atlantica	
Pasteurella atlantica + skyensis O1	
Piscichlamydia	
Piscirickettsia**	
PMCV	
Poxvirus ⁸	
PRV-1**	
PRV-3	
Salmoxcellia vastator ²	
Saprolegnia spp.	
SAV/PDV**	
T. maritimum	
Tenacibaculum spp.	
Typical furunculosis	
Typical and atypical furunculosis ³	
VHSV** ⁷	
Yersinia ruckeri	

PCR ANALYSES ONLY VALIDATED FOR CLEANERFISH

Wanted analysis:	Tissue*:
Atypical furunculosis (A.s type 5) ⁵	
Atypical furunculosis (A.s type 6) ⁶	
Ballan wrasse birnavirus ^{1,2}	
Lumpfish coronavirus	
Lumpfish totivirus ²	

Wanted analysis:	Tissue*:
Lumpsucker virus ⁹	
Nucleospora c.	
Pseudomonas anguilliseptica	
Vibrio ang. ⁴	

**Accredited analyses ¹Patent pending ²Analysis under development, validation performed on a limited amount of material ³Detects type 1-23
⁴Detects *Vibrio ordalii* and *Vibrio anguillarum* type O1, O2, O3 ⁵Detects *Aeromonas salmonicida* type 5, prevalent in ballan wrasse ⁶Detects *Aeromonas salmonicida* type 6, prevalent in lumpsucker ⁷Detects type I-III ⁸Patent NO/EP3237607 ⁹Patent NO344051 ¹⁰Two analyzes to cover more species. Detects *Mycobacterium salmoniphilum* and closely related species and *Mycobacterium marinum* and closely related species

VACCINE DIFFERENTIATION

Vaccine differentiation is done to determine if a positive result is a virus or a vaccine component, and will be performed after the first version is released. Vaccine differentiation will entail increased cost and a new report. We routinely perform differentiation for specific vaccine components:

IPNV - ex. ALPHA JECT micro[®] 6, AQUAVAC[®] PD7
 SAV/PDV - ex. ALPHA JECT micro[®] 1PD - Patent NO344938

Do not want vaccine differentiation? Yes No

SUBTYPING

SAV: Both SAV2 & SAV3** SAV2 SAV3**
 Do not want subtyping of SAV/PDV unless it is required by law

**SAV3 is an accredited analysis

Moritella viscosa: Both Classic & Variant Classic Variant

Yersinia ruckeri: Yersinia ruckeri CC1

KIT NO:

EXPIRATION DATE:



SAMPLE DETAILS

H=Healthy, M=Moribund, D=Dead

Pos.	Tube ID PCR	Fish no.	Pen/tub/ cylinder	Clinical signs*			Note
				H	M	D	
A01							
B01							
C01							
D01							
E01							
F01							
G01							
H01							
A02							
B02							
C02							
D02							
E02							
F02							
G02							
H02							
A03							
B03							
C03							
D03							
E03							
F03							
G03							
H03							
A04							
B04							
C04							
D04							
E04							
F04							
G04							
H04							
A05							
B05							
C05							
D05							
E05							
F05							
G05							
H05							
A06							
B06							
C06							
D06							
E06							
F06							
G06							
H06							

KIT NO:

EXPIRATION DATE:



SAMPLE DETAILS

H=Healthy, M=Moribund, D=Dead

Pos.	Tube ID PCR	Fish no.	Pen/tub/ cylinder	Clinical signs*			Note
				H	M	D	
A07							
B07							
C07							
D07							
E07							
F07							
G07							
H07							
A08							
B08							
C08							
D08							
E08							
F08							
G08							
H08							
A09							
B09							
C09							
D09							
E09							
F09							
G09							
H09							
A10							
B10							
C10							
D10							
E10							
F10							
G10							
H10							
A11							
B11							
C11							
D11							
E11							
F11							
G11							
H11							
A12							
B12							
C12							
D12							
E12							
F12							
G12							
H12							

DELIVERY SMOLTTIMER

- Normal** (5 working days - 4 when ordering in Patolink)
- Haste 1** (1 working day)
- Haste 2** (2 working days)

Haste 1 must be agreed upon in advance. Haste 2 agreed in advance will be prioritized.
 Haste 1 requires delivery of samples before 09.00 and entails a 100 % additional cost.
 Haste 2 requires delivery of samples before 12.00 and entails a 50 % additional cost.

Sea launch*		Water temperature*	
Salinity		Light	
Note			

Remember to cut out the entire 2nd gill arch on the left side.
A submission of 30 gill arches is recommended in order to obtain a representative sample set.

Fish	Fish no.	Pen/tub/cylinder	Weight*	Lenght*	Silver*	Fins*	Parr*
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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27							
28							
29							
30							

DELIVERY

- Normal (5 working days - 4 when ordering in Patolink)
- Haste 1 (1 working day)
- Haste 2 (2 working days)

Haste can only be delivered if filtering has been carried out.

Haste 1 must be agreed upon in advance on 70 11 69 00 / post@patogen.no.
 Haste 1 requires delivery of samples before 09.00 and entails a 100 % additional cost.
 Haste 2 requires delivery of samples before 12.00 and entails a 50 % additional cost.

ANALYSES

Check left for wanted analysis. The list below shows short names for the analyses. We refer to the analysis overview for the full analysis name, in addition to which geographical areas and species the analyses are recommended for. See www.patogen.com for analysis overview and sampling guide.

Wanted analysis**:	
<input type="checkbox"/>	AGD
<input type="checkbox"/>	BKD
<input type="checkbox"/>	Branchiomonas
<input type="checkbox"/>	Costia - necator
<input type="checkbox"/>	Costia - salmonis
<input type="checkbox"/>	Flavobacter
<input type="checkbox"/>	Francisella
<input type="checkbox"/>	Gyro
<input type="checkbox"/>	IHNV
<input type="checkbox"/>	IPNV
<input type="checkbox"/>	ISAV
<input type="checkbox"/>	ISAV-HPRO
<input type="checkbox"/>	Moritella viscosa
<input type="checkbox"/>	Mycobacterium ^{2,10}
<input type="checkbox"/>	Nodavirus
<input type="checkbox"/>	Paramyxovirus ²
<input type="checkbox"/>	Paranucleospora
<input type="checkbox"/>	Parvicapsula
<input type="checkbox"/>	
<input type="checkbox"/>	

Wanted analysis**:	
<input type="checkbox"/>	Pasteurella skyensis O2
<input type="checkbox"/>	Pasteurella atlantica
<input type="checkbox"/>	Pasteurella atlantica + skyensis O1
<input type="checkbox"/>	Piscichlamydia
<input type="checkbox"/>	Piscirickettsia
<input type="checkbox"/>	PMCV
<input type="checkbox"/>	Poxvirus ⁸
<input type="checkbox"/>	PRV-1
<input type="checkbox"/>	PRV-3
<input type="checkbox"/>	Salmoxicellia vastator ²
<input type="checkbox"/>	Saprolegnia spp.
<input type="checkbox"/>	SAV/PDV
<input type="checkbox"/>	T. maritimum
<input type="checkbox"/>	Tenacibaculum spp.
<input type="checkbox"/>	Typical furunculosis
<input type="checkbox"/>	Typical and atypical furunculosis ³
<input type="checkbox"/>	VHSV ⁷
<input type="checkbox"/>	Yersinia ruckeri
<input type="checkbox"/>	
<input type="checkbox"/>	

Wanted analysis**:	
<input type="checkbox"/>	Atypical furunculosis (A.s type 5) ⁵
<input type="checkbox"/>	Atypical furunculosis (A.s type 6) ⁶
<input type="checkbox"/>	Ballan wrasse birnavirus ^{1,2}
<input type="checkbox"/>	Lumpfish totivirus ²
<input type="checkbox"/>	Lumpsucker virus ⁹
<input type="checkbox"/>	Nucleospora c.
<input type="checkbox"/>	Pseudomonas anguilliseptica
<input type="checkbox"/>	Vibrio ang. ⁴
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

** Analyses related to WaterScreening are subject to PatoGen’s standard quality system and are validated, but not accredited. Water filtration has been validated on a limited amount of material ¹Patent pending ²Analysis under development, validation performed on a limited amount of material ³Detects type 1-23 ⁴Detects *Vibrio ordalii* and *Vibrio anguillarum* type O1, O2, O3 ⁵Detects *Aeromonas salmonicida* type 5, prevalent in ballan wrasse ⁶Detects *Aeromonas salmonicida* type 6, prevalent in lumpsucker ⁷Detects type I-III ⁸Patent NO/EP3237607 ⁹Patent NO344051 ¹⁰Two analyzes to cover more species. Detects *Mycobacterium salmoniphilum* and closely related species and *Mycobacterium marinum* and closely related species

SUBTYPING

Moritella viscosa: Both Classic & Variant Classic Variant

Yersinia ruckeri: Yersinia ruckeri CC1

SAMPLE DETAILS

	Sampling date	Sampling time	Salinity	Temperature	Taken from	Amount filtered	Note
A							
B							
C							
D							
E							
F							
G							
H							
I							
J							
K							
L							
M							
N							
O							
P							
Q							
R							
S							
T							
U							
V							
W							
X							
Y							
Z							

ATTENTION! All diagnostic samples must be sent directly to our partner Frst Medisinsk Laboratorium in Oslo. We encourage the use of the return label from PatoGen. All information must be registered in PatoLink. Deviations result in delayed delivery times.

DELIVERY HISTOLOGY

- Normal** (normally 5 working days)
- Haste 1** (2 working days)
- Haste 2** (3 working days)

Haste must be agreed upon in advance on 70 11 69 00 / post@patogen.no.
 Haste 1 entails a 200% additional cost.
 Haste 2 entails a 100% additional cost.

DELIVERY BACTERIOLOGY

The delivery time for bacteriology will depend on how long the bacterial growth takes.

When using swabs, for quality reasons, the samples must be sent the same day by overnight express.

HISTOLOGY

No. of fish* Fry Fresh water Salt water/broodstock Cleanerfish
Tissue*	<input type="radio"/> Heart <input type="radio"/> Kidney <input type="radio"/> Gill <input type="radio"/> Skin <input type="radio"/> Fry <input type="radio"/> Liver <input type="radio"/> Spleen <input type="radio"/> Pylorus region Other:
Purpose*	<input type="radio"/> Routine <input type="radio"/> Increased mortality Other:.....
Size*	<input type="radio"/> 0-100 grams <input type="radio"/> 100 grams - 4,5 kg <input type="radio"/> > 4,5 kg
Note	

BACTERIOLOGY

No. of fish*		Material*	<input type="radio"/> Bacterial culture primary <input type="radio"/> Bacterial culture secondary
Tissue*	<input type="radio"/> Heart <input type="radio"/> Kidney <input type="radio"/> Gill <input type="radio"/> Skin <input type="radio"/> Fry <input type="radio"/> Liver <input type="radio"/> Spleen <input type="radio"/> Pylorus region Other:		
Note			
Storage of bacteria in biobank	<input type="radio"/> Yes <input type="radio"/> No	Reservation against expert assessment	<input type="radio"/> Yes <input type="radio"/> No
Evaluation of resistance to antimicrobials	<input type="radio"/> Yes <input type="radio"/> No		

CLINICAL HISTORY

Increased mortality?*	<input type="radio"/> Yes <input type="radio"/> No	Known diagnoses*		Disease suspicion*	
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Disease description* - (clinical signs, cause of disease, autopsy findings...)

Autopsy findings per fish

Known diagnoses at the site the past 4 months:

	PD		HSMI		CMS		Gill disease		Wound infection		Other:
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Detected pathogens at the site the last 4 months, without disease:

Poxvirus	<i>Tenacibaculum maritimum</i>	IPNV	PRV
<i>Paramoeba perurans</i>	<i>Paranucleospora theridion</i>	SAV	PMCV
<i>Yersinia ruckeri</i>	<i>Candidatus Branchiomonas cysticola</i>		

ATTENTION! All biochemical samples must be sent directly to Ålesund.

DELIVERY BIOCHEMISTRY

Delivery time 5 working days.

It is recommended to submit a minimum of 200 µl.
 Submission of serum/plasma should be agreed before shipment.
 Contact us on 70 11 69 00 / post@patogen.no.
 See www.patogen.com for sampling guide.

SERVICES

BIOCHEMISTRY (CK, CK-MB, AST, LDH, ALT, Amylase, Lipase)

Number*		Sample material*	<input type="radio"/> Serum	<input type="radio"/> Plasma
Purpose*	<input type="radio"/> Routine <input type="radio"/> Increased mortality Other:			
Note				
Size*	<input type="radio"/> 0-100 grams <input type="radio"/> 100 grams - 4,5 kg <input type="radio"/> > 4,5 kg			

Known diagnoses at the site the past 4 months:

<input type="checkbox"/> PD	<input type="checkbox"/> HSMI	<input type="checkbox"/> CMS	<input type="checkbox"/> Gill disease	<input type="checkbox"/> Wound infection	<input type="checkbox"/> Other:
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Detected pathogens at the site the last 4 months, without disease:

<input type="checkbox"/> Poxvirus	<input type="checkbox"/> <i>Tenacibaculum maritimum</i>	<input type="checkbox"/> IPNV	<input type="checkbox"/> PRV
<input type="checkbox"/> <i>Paramoeba perurans</i>	<input type="checkbox"/> <i>Paranucleospora theridion</i>	<input type="checkbox"/> SAV	<input type="checkbox"/> PMCV
<input type="checkbox"/> <i>Yersinia ruckeri</i>	<input type="checkbox"/> <i>Candidatus Branchiomonas cysticola</i>		

SAMPLE DETAILS

H=Healthy, M=Moribund, D=Dead

Tube ID	Fish no.	Pen/tube/ cylinder	Clinical signs *		Note
			H	M	
1					
2					
3					
4					
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47					
48					

This page should only be filled when ordering BIOCHEMISTRY



SAMPLE DETAILS

H=Healthy, M=Moribund, D=Dead

Tube ID	Fish no.	Pen/tube/ cylinder	Clinical signs*		Note
			H	M	
49					
50					
51					
52					
53					
54					
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96					

DELIVERY LICEADVISOR

- Normal** (5 working days - 4 when ordering in Patolink)
- Haste 1** (1 working day)
- Haste 2** (2 working day)

Haste 1 must be agreed upon in advance. Haste 2 agreed in advance will be prioritized.
Haste 1 requires delivery of samples before 09.00 and entails a 100 % additional cost.
Haste 2 requires delivery of samples before 12.00 and entails a 50 % additional cost.

LiceAdvisor is validated for a minimum of 30 salmon lice. Sample submission of 30 salmon lice is recommended to obtain a representative sample set.

Are there reduced sensitivity to one or more therapeutic agents? Yes No

If yes, which?

<input type="checkbox"/>	SALMOSAN®
<input type="checkbox"/>	BETAMAX®

<input type="checkbox"/>	ALPHA MAX®
<input type="checkbox"/>	HYDROGEN PEROXIDE

Analyses

<input type="checkbox"/>	PYRETHROIDS (ALPHA MAX®/BETAMAX®) ¹
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¹Patent EP3030673 og EP3030674

<input type="checkbox"/>	AZAMETIPHOS (SALMOSAN®/AZASURE) ²
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²Patent EP3033433

<input type="checkbox"/>	HYDROGEN PEROXIDE ³
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³Patent EP3164502

Note

Attention! All samples for sequencing must be sent directly to Aalesund.

DELIVERY BACTOPROFILE

- Normal** (5 working days)
- Haste** (3 working days)

Haste must be agreed upon in advance, and entails an additional cost.

- Customer assignment

If you are interested in a customer assignment, please take contact on 70 11 69 00 or via post@patogen.no.

SAMPLING DETAILS WHEN ORDERING BACTOPROFILE

Tube ID	Outlet point*	Sampling date*	Sample type*	Fish group

Fields marked with * must be filled in.
Be consistent in naming the same with outlet point, so that it can be put together in a time series.

Additional info

Attention! All samples for seqencing must be sent directly to Aalesund.

DELIVERY VIRUS/ADDITIONAL PRODUCT

- Normal** (5-10 working days, depending on the product)
- Haste** (3-5 working days, depending on the product)

Haste must be agreed upon in advance, and entails an additional cost.

PatoSequencing report and sequencing file

- ILAV (segment 5 og 6)
- ILAV (segment 6)
- IPNV (segment A)
- SAV (typing av SAV)
- Customer assignment

If you are interested in a customer assignment, virus or other target sequencing, please take contact on 70 11 69 00 or via post@patogen.no. HPR deleted is performed automatically upon positive detection of ILAV.

Additional product

- Phylogeny analysis ILAV / IPNV / PRV
- Vaccine differentiation (IPNV/ILAV)
- DNA/RNA sequencing

If you have other interest or questions, please take contact on 70 11 69 00 or via post@patogen.no.

If additional order:

Additional order		PG number			
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SAMPLING DETAILS WITH PHYLOGENY ANALYSIS

Sample	Sample ID	Broodstock/Fresh water	Fish group	Lauched A/S year	Breed
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

Additional info