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**	◯ Sea water ◯ Fresh water ◯ Brood stock
Vaccinated fish?*	◯ Yes ◯ No If yes, which vaccine?		
Water environment*	◯ Salt water ◯ Fresh water ◯ 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, recommeded 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

Confimation of read/understood which species and geographical areas the ordered analyses are recommended for. See patogen.no for overview of recommended area of use, under forms and guides.

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** (3 working days)
- ◯ **Haste 1** (1 working day)
- ◯ **Haste 2** (2 working days)

Haste 1 must be agreed upon in advance at +47 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	

ADDITIONAL INFORMATION

PATOSAFE (PCR ANALYSES)

Check left for required 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 complete analysis name, in addition to which geographical areas and species the analyses are recommended for. Analysis overview and sampling guides are available at www.patogen.com.

	Required analysis:	Tissue*:
	Aeromonas salmonicida type 1-23	
	Aeromonas salmonicida subsp. sal.	
	Aeromonas salmonicida type 5	
	Aeromonas salmonicida type 6	
	AGD - Paramoeba perurans	
	Aliivibrio wodanis[2]	
	Atlantic salmon paramyxovirus[2]	
	Ballan wrasse birnavirus[1]	
	BKD - Renibacterium salmoninarum**	
	Ca. Branchiomonas cysticola	
	Ca. Piscichlamydia salmonis	
	Carnobacterium maltaromaticum[2]	
	Cod poxvirus[2]	
	Costia - Ichthyobodo necator	
	Costia - Ichthyobodo salmonis	
	Flavobacterium psychrophilum**	
	Francisella**	
	Gyrodactylus salaris	
	IHNV	
	IPNV**	
	IPNV GG5 and Variant[8]	
	ISAV**	
	ISAV-HPR0**	
	Lumpfish coronavirus	
	Lumpfish totivirus[2]	
	Lumpsucker virus[5]	
	Moritella viscosa	
	Moritella viscosa Classic and Variant[8]	

	Required analysis:	Tissue*:
	Mycobacterium marinum[2,6]	
	Mycobacterium salmoniphilum[6]	
	Nodavirus**	
	Nucleospora cyclopteri	
	Paranucleospora theridion	
	Parvicapsula pseudobranchicola	
	Phocoenobacter atlanticus	
	Phocoenobacter atl. + sky. O1	
	Phocoenobacter skyensis O2	
	Piscirickettsia spp.**	
	Piscirickettsia salmonis	
	Piscirickettsia nova	
	PMCV	
	PRV-1**	
	PRV-3	
	Pseudomonas anguilliseptica	
	Salmon poxvirus[4]	
	Salmoxcellia vastator	
	Saprolegnia spp.	
	SAV/PDV**	
	SAV2 and SAV3**[8]	
	Tenacibaculum maritimum	
	Tenacibaculum spp.[7]	
	VHSV**[3]	
	Vibrio anguillarum + ordalii	
	Yersinia ruckeri	
	Yersinia ruckeri CC1	

**Accredited analyses [1]Patent NO347379 [2]Analysis under development, validation performed on a limited amount of material [3]Detects genotype I-III [4]Patent NO346439 [5]Patent NO344051 [6]Detects also closely related species [7]The analysis does not detect *Tenacibaculum maritimum* [8]Subtyping can be performed following positive detection in the general analysis

VACCINE DIFFERENTIATION

Vaccine differentiation is used to assess whether a positive test result is due to virus or a vaccine component. As the analysis is performed after the standard test, this will result in increased turnaround time and additional costs.

PatoGen performs vaccine differentiation for:
IPNV (Alpha Ject micro-vaccines containing an IPNV component).

Vaccine differentiation? ◯ Yes ◯ No

This page should only be filled when ordering PCR

KIT NO: EXPIRATION DATE:

PATOGEN®

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							

This page should only be filled when ordering PCR

KIT NO: EXPIRATION DATE:

PATOGEN®

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							

This page should only be filled when ordering SmoltTimer

DELIVERY SMOLTTIMER

◯ **Normal** (3 working days)
◯ **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							
14							
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16							
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21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

This page should only be filled when ordering WATERSCREENING

DELIVERY

- ◯ **Normal** (3 working days)
- ◯ **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 at +47 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 required analysis. The list below shows short names for the analyses. We refer to the analysis overview for complete analysis name, in addition to which geographical areas and species the analyses are recommended for. Analysis overview and sampling protocol are available at www.patogen.com.

	Required analysis**:
	Aeromonas salmonicida type 1-23
	Aeromonas salmonicida subsp. sal.
	Aeromonas salmonicida type 5
	Aeromonas salmonicida type 6
	AGD - Paramoeba perurans
	Aliivibrio wodanis[2]
	Atlantic salmon paramyxovirus[2]
	Ballan wrasse birnavirus[1]
	BKD - Renibacterium salmoninarum
	Ca. Branchiomonas cysticola
	Ca. Piscichlamydia salmonis
	Carnobacterium maltaromaticum[2]
	Cod poxvirus[2]
	Costia - Ichthyobodo necator
	Costia - Ichthyobodo salmonis
	Flavobacterium psychrophilum
	Francisella
	Gyrodactylus salaris

	Required analysis**:
	IHNV
	IPNV
	ISAV
	ISAV-HPR0
	Lumpfish coronavirus
	Lumpfish totivirus[2]
	Lumpsucker virus[5]
	Moritella viscosa
	Moritella viscosa Classic and Variant[8]
	Mycobacterium marinum[2,6]
	Mycobacterium salmoniphilum[6]
	Nodavirus
	Nucleospora cyclopteri
	Paranucleospora theridion
	Parvicapsula pseudobranchicola
	Phocoenobacter skyensis O2
	Phocoenobacter atlanticus
	Phocoenobacter atl. + sky. O1

	Required analysis**:
	Piscirickettsia spp.
	Piscirickettsia salmonis
	Piscirickettsia nova
	PMCV
	PRV-1
	PRV-3
	Pseudomonas anguilliseptica
	Salmon poxvirus[4]
	Salmoxcellia vastator
	Saprolegnia spp.
	SAV/PDV
	SAV2 and SAV3[8]
	Tenacibaculum maritimum
	Tenacibaculum spp.[7]
	VHSV[3]
	Vibrio anguillarum + ordalii
	Yersinia ruckeri
	Yersinia ruckeri CC1

** 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 [1]Patent NO347379 [2]Analysis under development, validation performed on a limited amount of material [3]Detects genotype I-III [4]Patent NO/EP3237607 [5]Patent NO344051 [6]Detects also closely related species [7]The analysis does not detect *Tenacibaculum maritimum* [8]Subtyping can be performed following positive detection in the general analysis

This page should only be filled when ordering WATERSCREENING

PATOGEN®

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							

This page should only be filled when ordering DIAGNOSTICS

ATTENTION! All diagnostic samples must be sent directly to our partner Fürst 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 at +47 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*	◯ Heart ◯ Kidney ◯ Gill ◯ Skin ◯ Fry ◯ Liver ◯ Spleen ◯ Pylorus region Other:……
Purpose*	◯ Routine ◯ Increased mortality Other:……
Size*	◯ 0-100 grams ◯ 100 grams - 4,5 kg ◯ > 4,5 kg
Note	

BACTERIOLOGY

No. of fish*		**Material***	◯ Bacterial culture primary ◯ Bacterial culture secondary
Tissue*	◯ Heart ◯ Kidney ◯ Gill ◯ Skin ◯ Fry ◯ Liver ◯ Spleen ◯ Pylorus region Other:……		
Note			
Storage of bacteria in biobank	◯ Yes ◯ No		
Evaluation of resistance to antimicrobials	◯ Yes ◯ No		

This page should only be filled when ordering DIAGNOSTICS

CLINICAL HISTORY

Increased mortality?*	◯ Yes ◯ No	Known diagnoses*		Disease suspicion*	

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:

Detected pathogens at the site the last 4 months, without disease:

	Poxvirus		*Tenacibaculum maritimum*		IPNV		PRV
	Paramoeba perurans		*Paranucleospora theridion*		SAV		PMCV
	Yersinia ruckeri		*Candidatus* Branchiomonas cysticola				

This page should only be filled when ordering DIAGNOSTICS

PATOGEN®

SAMPLE DETAILS

H=Healthy, M=Moribund, D=Dead

	Tube ID		Fish no.	Pen/tub/ cylinder	Clinical signs*			Note
	Histo.	Bact.			G	M	D	
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								

This page should only be filled when ordering BIOCHEMISTRY

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 at +47 70 11 69 00 / post@patogen.no.
Sampling guides are available at www.patogen.no.

SERVICES

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

Number*		**Sample material***	◯ Serum ◯ Plasma
Purpose*	◯ Routine ◯ Increased mortality	Other:	
Note			
Size*	◯ 0-100 grams ◯ 100 grams - 4,5 kg ◯ > 4,5 kg		

Known diagnoses at the site the past 4 months:

☐	PD	☐	HSMI	☐	CMS	☐	Gill disease	☐	Wound infection	☐	Other:

Detected pathogens at the site the last 4 months, without disease:

☐	Poxvirus	☐	*Tenacibaculum maritimum*	☐	IPNV	☐	PRV
☐	*Paramoeba perurans*	☐	*Paranucleospora theridion*	☐	SAV	☐	PMCV
☐	*Yersinia ruckeri*	☐	*Candidatus* Branchiomonas cysticola	☐		☐	

This page should only be filled when ordering BIOCHEMISTRY

PATOGEN®

SAMPLE DETAILS

H=Healthy, M=Moribund, D=Dead

Tube ID	Fish no.	Pen/tube/ cylinder	Clinical signs *		Note
			H	M	
1					
2					
3					
4					
5					
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48					

This page should only be filled when ordering BIOCHEMISTRY

PATOGEN®

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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56					
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96					

This page should only be filled when ordering LICEADVISOR®

DELIVERY LICEADVISOR

- ◯ **Normal** (3 working days)
- ◯ **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.

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?

☐	SALMOSAN®	☐	ALPHA MAX®
☐	BETAMAX®	☐	HYDROGEN PEROXIDE

Analyses

☐	PYRETHROIDS (ALPHA MAX®/BETAMAX®)[1]	☐	AZAMETIPHOS (SALMOSAN®/AZASURE)[2]	☐	HYDROGEN PEROXIDE[3]

[1]Patent EP3030673 og EP3030674

[2]Patent EP3033433

[3]Patent EP3164502

ADDITIONAL INFORMATION

This page should only be filled when ordering SEQUENCING - BACTOPROFILE

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

LEVERING BACTOPROFILE

- ◯ **Normal** (5 working days, depending on the product)
- ◯ **Haste** (3 working days, depending on the product)
- ◯ **Customer assignment** (delivery subject to separate arrangement)

Haste must be agreed upon in advance t +47 70 11 69 00 or by email at post@patogen.no and entails an additional cost.
If you are interested in a customer asssignment, please contact PatoGen at +47 70 11 69 00 or by email at post@patogen.no.

SAMPLING DETAILS WHEN ORDERING BACTOPROFILE

Fields marked with * must be filled in.
Ensure consistent naming of withdrawal points, so data from different withdrawal points can be combined into a time series.

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

ADDITIONAL INFORMATION

This page should only be filled when ordering SEQUENCING

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

DELIVEERY SEQUENCING

- ◯ **Normal** (5-10 working days, depending on the product)
- ◯ **Haste** (3-5 working days, depending on the product)
- ◯ **Customer assignment** (delivery subject to separate arrangement)

Haste must be agreed upon in advance t +47 70 11 69 00 or by email at post@patogen.no and entails an additional cost.

ANALYSES

Virus sequencing

ISAV:
- ◯ Phylogenetic analysis (segment 6)
- ◯ Virulence assessment (segment 6) *

* *HPR deleted is automatically performed upon positive detectionof ISAV with PCR.*

IPNV:
- ◯ Phylogenetic analysis (segment A)
- ◯ Vaccine differentiation*

* *E.g. ALPHA JECT micro ®6*

PRV1:
- ◯ Genotyping (segment S1, S4, M2, L1*, L2*)

* *Parts of the segment*

SAV:
- ◯ Genotyping (SAV1-SAV6)

Other

- ◯ Bacterial typing
- ◯ ISAV segment 6 sequence file
- ◯ ISAV segment 5 sequence file
- ◯ IPNV segment A sequence file

Other sequencing services may be offered as part of R&D activities or as commissioned projects.
Please contact PatoGen at +47 70 11 69 00 / post@patogen.no.

SAMPLE DETAILS

Sample ID /Tube ID/Fish no.	Type of material	PG-no. (registered by PatoGen)	Sample no. (registered by PatoGen)	Sequencing code (registered by PatoGen)

ADDITIONAL INFORMATION