

Request for Diagnostic Testing Pig / Swine



Testing laboratory accredited by the DAkkS according to DIN EN ISO/IEC 17025.



Deutsche Akkreditierungsstelle
D-PL-18303-02-00

To: **IVD GmbH**
Innovative Veterinary Diagnostic Laboratory
Albert-Einstein-Str. 5 30926 Seelze-Letter GERMANY

Phone: + 49 (0)511-22 00 29-0 Fax: -99
E-Mail: service@ivd-gmbh.de <https://www.ivd-gmbh.de/en>

Veterinarian / Sender:		Address of animal owner:		Other:	
Name		Name		Name	
Street		Street		Street	
City / Postal code		City / Postal code		City / Postal code	
Country		Country		Country	
Phone		Phone		Phone	
Fax		Fax		Fax	
E-Mail: Vet-ID-No.: (for Salmonella monitoring Qualiproof® by QS)		E-Mail: VVVO-No.: (for Salmonella monitoring Qualiproof® by QS)		E-Mail:	
Results to:			Invoice <u>only</u> to:		
<input type="checkbox"/> Veterinarian <input type="checkbox"/> Animal owner <input type="checkbox"/> Others			<input type="checkbox"/> Veterinarian / Sender VAT Reg. No.:		

Sampling date:				
Type of operation: breeding: <input type="checkbox"/> sows <input type="checkbox"/> boars <input type="checkbox"/> multiplier <input type="checkbox"/> production of gilts <input type="checkbox"/> production of boars mast: <input type="checkbox"/> farrowing operation <input type="checkbox"/> nursery <input type="checkbox"/> finishing operation <input type="checkbox"/> closed system				
Herd size:	number of <input type="checkbox"/> sows / <input type="checkbox"/> boars:	number of piglets:	number of fatteners:	total number of animals:
Symptoms: <input type="checkbox"/> no symptoms (health check) <input type="checkbox"/> respiratory <input type="checkbox"/> enteric <input type="checkbox"/> reproductive <input type="checkbox"/> dermal <input type="checkbox"/> neurological <input type="checkbox"/> other:				
Clinical history:				
Animals treated:	<input type="checkbox"/> no <input type="checkbox"/> yes	For how long / last on:	with:	
Animals vaccinated against:	<input type="checkbox"/> no <input type="checkbox"/> yes	last vaccination on:	vaccine:	
	<input type="checkbox"/> no <input type="checkbox"/> yes	last vaccination on:	vaccine:	
	<input type="checkbox"/> no <input type="checkbox"/> yes	last vaccination on:	vaccine:	

Location and date	Signature of veterinarian / sender
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The current price list is available on request. All services are subject to our General Terms and Conditions of Sale, which can be reviewed at <https://www.ivd-gmbh.de/en/home/>
Our privacy policy can be found at <https://www.ivd-gmbh.de/datenschutz>

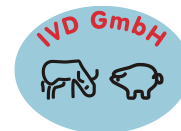
Sample No.	animal ID / bar code	material *	sex / age **	Sample No.	animal ID / bar code	material *	sex / age **
1				26			
2				27			
3				28			
4				29			
5				30			
6				31			
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23				48			
24				49			
25				50			

* blood (serum, plasma), BALF, organs, urine, feces, etc.

** sow (**s**, **gilt**); boar (**b**); piglet (**p**): suckling piglet (**sp**), weaning piglet (**wp**), growing pig (**gp**); fattening pig (**f**)

Tests requested:

Serological tests for specific agents (Detection of antibodies)



- No. ***Actinobacillus pleuropneumoniae* (App)**
ApxIV ELISA (standard)
- No. **App LPS Mix ELISA**
- App serotyping /
Single App serotypes / groups:**
- No. App ELISA **virulent plus** screening:
highly virulent serotypes 1/9/11, 5a/b
& 2 (dominant in EU)
- No. App ELISA **full** screening:
all 12 serotypes
- No. App ELISA serotypes 1/9/11
- No. App ELISA serotype 2
- No. App ELISA serotypes 3/6/8
- No. App ELISA serotypes 4/7
- No. App ELISA serotypes 5a/b
- No. App ELISA serotype 10
- No. App ELISA serotype 12
- No. ***Chlamydia* CFT (no EDTA!)**
- No. ***Erysipelothrix rhusiopathiae*** ("Erysipelas")
ELISA
- No. ***Glaesserella (Haemophilus) parasuis***
ELISA
- No. **Influenza A Virus (IAV) ELISA
(standard)**
- No. **Influenza A Virus (IAV) OF ELISA
for oral fluids only**
- No. **Influenza A Virus (IAV) or Swine
Influenza A Virus (SIV) HI**
(H1N1, H1N2, H3N2, pH1N1 & pH1N2)
(recommended for vaccinated sows, **no EDTA!**)
- No. ***Lawsonia intracellularis* ELISA**
- No. ***Leptospira* (pathogenic serovars) MAT**
- No. ***Mesomycoplasma hyopneumoniae* ELISA**
- No. ***Mesomycoplasma hyorhinis* ELISA**
- No. **Porcine Circovirus 2 (PCV2)
IgM/IgG ELISA**
- No. **Porcine Parvovirus (PPV) ELISA**
- No. **Porcine Reproductive and Respiratory
Syndrome Virus (PRRSV) ELISA**
- No. ***Salmonella* ELISA**
- Export into Qualiproof® data base (QS)
- No. ***Sarcoptes scabiei var. suis*** ("Scabies")
ELISA
- No. **Transmissible Gastroenteritis Virus/
Porcine Respiratory Coronavirus**
(TGEV/PRCV) ELISA - on request

**For further serological examinations only, e.g. concerning
export examinations,
not for exclusion of registered diseases
*on request**

- No. **AKV** (Virus of Aujeszky's Disease or
Pseudorabies also PRV) ELISA
- No. **ASFV** (Virus of African Swine Fever) ELISA*
- No. ***Brucella* RBT (no EDTA!)**
- No. **CSFV** (Virus of Classical or European Swine
Fever) ELISA
- No. **SVDV** (Virus of Swine Vesicular Disease)
ELISA*

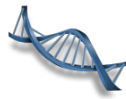
more tests and services on request

Serological Screenings

- No. **Respiratory screening "Ahlem":**
App, M. hyopneu., PRRSV,
IAV: ELISA/ HI
- No. **Respiratory screening "Glässer":**
App, Gps (Hps), PRRSV,
IAV: ELISA/ HI
- No. **Reproductive tract screening
"Ery+Parvo":**
PRRSV, PPV,
Leptospira, Erysipelas
- No. **Reproductive tract screening "Melle":**
PCV2 (IgM/IgG), PRRSV,
Leptospira,
IAV: ELISA/ HI
- No. **Screening "Sow Vaccination":**
PCV2 (IgM/IgG), PRRSV,
PPV, IAV HI
recommended: from 3 weeks post vacc.
- No. **Health Check "Swine":**
App, M. hyopneu., Erysipelas, *Leptospira*,
PRRSV, PPV,
IAV: ELISA/ HI
- No. **Screening "Outdoor -Pigs" - Blood:**
Erysipelas, *Leptospira*, *Chlamydia*,
PRRSV, IAV (ELISA)

Important!

The material best suited for **all** serological examinations is **serum or blood without anticoagulants**.
Furthermore, in selected cases detection of antibodies is also possible in bodily fluids, especially oral fluids.
Please call us (+49 511 220029-0) or see our website <https://www.ivd-gmbh.de/en/home/> for more information.



Tests requested:

Detection by PCR

Please specify if a **pool** of (up to 5) individual samples is to be tested: e.g. pool 1-4, 6-10 or 1+2+11+12+13, etc.
Please indicate if it is already a pooled sample!

- No. _____ **A. pleuropneumoniae** (App)
- No. _____ **Brachyspira hyodysenteriae**
- No. _____ **Brachyspira pilosicoli**
- No. _____ **Brachyspira spec.**,
B. pilosicoli, *B. hampsonii*, *B. intermedia*, *B. innocens*, *B. suanatina* and *B. murdochii*
- No. _____ **Brachyspiren** with differentiation of all species above incl. **Brachyspira hyodysenteriae**
- No. _____ **Campylobacter spec.**, *C. coli* and *C. jejuni*
- No. _____ **Chlamydia**
- No. _____ **Clostridium difficile**
(genes coding for toxin B & binary toxin B)
- No. _____ **Clostridium perfringens**
(detection of types A and C)
- No. _____ **Cystoisospora suis**
- No. _____ **Coronavirus** (TGEV + PEDV)
- No. _____ **Escherichia coli**
(virulence associated factor genes)
- No. _____ **E. coli**
(only edema disease)
- No. _____ **Glaesserella (Haemophilus) parasuis** + potential virulence marker
- No. _____ **Influenza-A-Virus** (IAV)
 only subsequent to positive IAV PCR with Ct value ≤ 30
Swine Influenza Virus (SIV) Subtyping PCR
- No. _____ Nucleotide sequence analysis of an **Influenza A Virus** PCR product (HA-gene) incl. alignment
- No. _____ **Lawsonia intracellularis**
- No. _____ **Lawsonia intracellularis** quantitative PCR
- No. _____ **Leptospira** (Differentiation of pathogenic Leptospira subclades P1 and P2)
- No. _____ **Mesomycoplasma hyopneumoniae**
- No. _____ **Mesomycoplasma hyorhinitis**
- No. _____ **Metamycoplasma hyosynoviae**
- No. _____ **Eperythrozoon (Mycoplasma) suis**
("Eperythrozoonosis")
- No. _____ **Pasteurella multocida** Toxin A
- No. _____ **PCV2/3**
- No. _____ **PCV2** quantitative PCR
- No. _____ Nucleotide sequence analysis of a **PCV2** PCR product (orf2) incl. alignment
- No. _____ **PPV**
- No. _____ Nucleotide sequence analysis of a **PPV1** PCR product (VP2) incl. alignment

- No. _____ **PRRSV-1+2** (EU/NA)
- No. _____ Nucleotide sequence analysis of a **PRRSV** PCR product incl. alignment
- No. _____ **PRRSV-1** (EU)
- No. _____ **PRRSV-2** (NA)
- No. _____ Additional alignment to further PRRSV sequences:

- No. _____ **Rotavirus** group A / C
- No. _____ **Salmonella** spec., Serovar Choleraesuis and Typhimurium
- No. _____ **Streptococcus suis**

Important!

If swabs are used for PCR, they have to be **dry and free of medium**.

PCR-Screenings

(combination of single PCRs)

- No. _____ **PCR "Respiration":**
App, *M. hyopneumoniae*, IAV, PRRSV
- No. _____ **PCR "Respiration plus":**
App, *M. hyopneumoniae*, IAV, PCV2/3, PRRSV
- No. _____ **PCR "Bakum":**
M. hyopneumoniae, IAV, PCV2/3, PRRSV
- No. _____ **PCR "Dessau":**
App, *M. hyopneumoniae*, PCV2/3, PRRSV
- No. _____ **PCR "Reproduction":**
Chlamydia, *Leptospira*, PCV2/3, PPV, PRRSV
- No. _____ **PCR "Dysentery/Ileitis":**
Brachyspira hyodysenteriae,
Lawsonia intracellularis
- No. _____ **PCR "Enteritis":**
Brachyspira hyodysenteriae,
Lawsonia intracellularis, *Salmonella spec.*
- No. _____ **PCR "Rota-/Coronavirus":**
Rotavirus group A/C, TGEV, PEDV
- No. _____ **PCR "Suckling piglet diarrhea":**
E. coli incl. typing; *Clostr. perfringens* (typ A&C),
Cystoisospora suis, Rotavirus A/C
- No. _____ **PCR "Finisher":**
E. coli incl. typing; *Brachyspira hyodysenteriae*,
Lawsonia intracellularis, *Salmonella spec.*
- No. _____ **PCR "Finisher plus":**
E. coli incl. typing; *Brachyspira hyodysenteriae*,
Lawsonia intracellularis, *Salmonella spec.*
Rotavirus group A/C, TGEV, PEDV

Important!

There is no pathogen cultivation during the PCR-Screenings, a resistance test and the preservation of isolates are not possible without further cultural examination!!

PCR "Oral Fluids" for Herd Check:

- No. _____ *M. hyopneumoniae*, *M. hyorhinitis*, IAV, PCMV, PCV2, PRCV, PRRSV, PPV, PEDV, Rotavirus A/C, *Brachyspira hyodysenteriae*, *Lawsonia intracellularis*

PCR "Outdoor Pigs" - Feces:

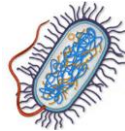
- No. _____ *Brachyspira*, with differentiation of species (PCR), *Lawsonia intracellularis* (PCR), *Salmonella Choleraesuis* - Typhimurium (PCR), Detection of parasites

Tests requested:



Multiplex PCRs

- No. _____ **Multiplex PCR "Neumünster":**
M. hyopneumoniae, *M. hyorhinis*, IAV, PCMV,
PCV2, PRCV, PRRSV
- No. _____ **Multiplex PCR "APP/GPS (HPS) + vir":**
App, *Gps* (HPS) + potential virulence marker
- No. _____ **Multiplex PCR "Serositis":**
Gps (HPS) + potential virulence marker,
M. hyorhinis
- No. _____ **Multiplex PCR "Arthritis":**
Gps (HPS), *M. hyorhinis*, *M. hyosynoviae*,
Streptococcus suis



Bacteriological testing

- No. _____ Examination by bacteriological culture in general
- No. _____ Examination by bacteriological culture only for:
(specify bacteriological agents)
- _____
- No. _____ Custodial storage of pathogenic isolates

Antimicrobial susceptibility testing of pathogenic isolates

- No. _____ Agar diffusion test
- No. _____ Microdilution technique

Typing of bacterial isolates / of conserved nucleic acid from suitable samples

- No. _____ **NO TYPING required**
- No. _____ **App** Serotyping (PCR)
- No. _____ **App** Apx toxin typing (PCR)
- No. _____ **Clostridioides difficile**
Toxin genes A/B and binary toxin genes A/B (PCR)
- No. _____ **Clostridium perfringens**
Genotyping and toxin production (PCR & Immunoblot)
- only PCR
- only Immunoblot
- No. _____ **Escherichia coli pathotype PCR**
Virulence-associated factors incl. "Edema disease"
- No. _____ **Glaesserella (Haemophilus) parasuis**
Serotyping & Pathotyping (PCR)
- only **Gps (Hps)** Serotyping (PCR)
- only **vtaA-LS-PCR**
Pathotyping for prognosis of the virulence potential of *Gps* (*Hps*)
- No. _____ **mcr-1-Gen** (PCR) (**colistin resistance**)

- No. _____ **MRSA Methicillin-Resistant Staphylococcus aureus**
mecA gene and PBP2 expression (PCR & agglutination)
- No. _____ **Pasteurella multocida Toxin**
Detection of *tox A* gene (PCR)
- No. _____ **Pasteurella multocida capsular typing**
Capsular type A, B, D, E and F as well as haemorrhagic septicaemic (HS) and capsular type B (PCR)
- No. _____ **Porcine Mykoplasma Differentiation:**
M. flocculare, *M. hyopneumoniae*,
M. hyosynoviae, *M. hyorhinis* (PCR)
- No. _____ **Salmonella PCR**
Salmonella spec., Serovar Choleraesuis and Typhimurium
- No. _____ **Staphylococcus hyicus**
Exfoliative toxin genes A-D and virulence-associated factor (PCR)
- No. _____ **Streptococcus suis**
Capsular type (*cps* 1, 2, 4, 7 or 9) and virulence-associated factors (PCR)
- No. _____ **16S rRNA typing**
for general species identification

Diagnostic Profiles

- No. _____ **"Suckling piglet Diarrhoea":**
(only with feces samples, **no swabs!**)
- Rotavirus and Coronavirus (PCR)
 - *E. coli* and *C. perfringens* (culture)
 - Detection of parasites incl. Coccidia
- with typing E. coli**
- with typing C. perfringens**
- with susceptibility testing**
- Agar diffusion test
- Microdilution technique

Parasitological testing

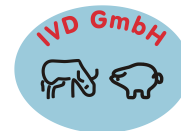
Detection of parasite stages in feces:

- No. _____ Helminth eggs (worm eggs), protozoan oocysts and cysts (feces) incl. Coccidia
- No. _____ *Cryptosporidium* (feces)
- No. _____ Liver fluke (*Fasciola*, *Dicrocoelium*) (feces)

Detection of skin parasites:

- No. _____ Mites (Sarcoptes (Scabies), Demodex mites (Demodicosis), etc.)
(deep skin scrapings)
- No. _____ Lice (*Haematopinus suis*)
(adhesive film copy)





Tests requested:

Pathological testing

No. _____ **Necropsy of fetuses**

No. _____ **Histology**

Further testing and services on request:

e.g. examinations for the international swine trade (incl. Classical Swine Fever, Aujeszky's disease, TGE, SVD etc.);
provision of characterized, bacterial isolates, etc.

Comment/Miscellaneous:

Immunohistology

No. _____ *Actinobacillus pleuropneumoniae*

No. _____ Influenza A Virus (IAV)

No. _____ *Lawsonia intracellularis*

No. _____ *Mesomycoplasma hyopneumoniae*

No. _____ PCV2

No. _____ Rotavirus group A

For information about suitable specimen for the detection of various agents visit our website <https://www.ivd-gmbh.de/en/home> or call us (+49 511 220029-0).

On our website you will also find a request form for suitable packaging material for samples.