

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:		For how long / last on:		with:	
<input type="checkbox"/> no <input type="checkbox"/> yes					
Animals vaccinated against:		last vaccination on:		vaccine:	
<input type="checkbox"/> no <input type="checkbox"/> yes					
<input type="checkbox"/> no <input type="checkbox"/> yes					

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>
 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			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
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

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

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. _____ **Brucella suis** ELISA

No. _____ **CSFV** (Virus of Classical or European Swine
Fever) ELISA

No. _____ **SVDV** (Virus of Swine Vesicular Disease)
ELISA

No. _____ **Porcine Circovirus 2 (PCV2)**
IgM/IgG ELISA (standard)

No. _____ **PCV2** ELISA (alternative IgG ELISA)

No. _____ **PEDV** ELISA

No. _____ **Porcine Parvovirus (PPV)** ELISA

No. _____ **Porcine Reproductive and Respiratory
Syndrome Virus (PRRSV) ELISA**
(standard)

No. _____ **PRRSV** OF ELISA
for oral fluids only

No. _____ **Salmonella** ELISA

No. _____ Export into Qualiproof® data base (QS)

No. _____ **Sarcoptes scabiei var. suis** ("Scabies")
ELISA

No. _____ **Transmissible Gastroenteritis Virus/
Porcine Respiratory Coronavirus**
(TGEV/PRCV) ELISA

No. _____ **Yersinia** (pathogenic) ELISA

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

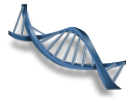
No. _____ **Health Check "Swine":**
App, M. hyopneu., Erysipelas, Leptospira,
PRRSV, PPV, IAV: ELISA/ HI

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> for more information.

Tests requested:



PCR tests for specific agents

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. _____ **Brachyspira** with differentiation of all species above **incl. Brachyspira hyodysenteriae**
- No. _____ **Campylobacter sp., C. coli and C. jejuni**
- No. _____ **Chlamydia**
- No. _____ **Chlamydia** with differentiation of species
- No. _____ **Coronavirus (TGEV + PEDV)**
- No. _____ **Glaesserella (Haemophilus) parasuis** + potential virulence marker
- No. _____ **Influenza A Virus (IAV)**
- No. _____ **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 (Only testing of individual samples is useful!)
- No. _____ **Leptospira** (Differentiation of pathogenic Leptospira subclades P1 and P2)
- No. _____ **Mesomycoplasma hyopneumoniae**
- No. _____ **Mesomycoplasma hyorhinis**
- No. _____ **Metamycoplasma hyosynoviae**
- No. _____ **Eperythrozoon (Mycoplasma) suis** ("Eperythrozoonosis")
- No. _____ **Pasteurella multocida** toxin A
- No. _____ **PCV2/3**
- No. _____ **PCV2** quantitative PCR (Only testing of individual samples is useful!)
- 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)** as well as "highly pathogenic" **PRRSV-2** variants
- No. _____ **only subsequent to positive PRRSV PCR with Ct value ≤ 30**
PRRSV DV (PRRSV-1 vaccine strain)
- No. _____ Nucleotide sequence analysis of a **PRRSV** PCR product incl. alignment
 PRRSV-1 (EU)
 PRRSV-2 (NA)
 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**.

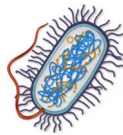
PCR Screenings

(combination of single PCRs)

- No. _____ **PCR "Respiration":**
App, M. hyopneu., IAV, PRRSV
- No. _____ **PCR "Bakum":**
M. hyopneu., IAV, PCV2/3, PRRSV
- No. _____ **PCR "Dessau":**
App, M. hyopneu., PCV2/3, PRRSV
- No. _____ **PCR "Dysentery/Ileitis":**
Brachyspira hyodysenteriae, Lawsonia intracellularis
- No. _____ **PCR "Enteritis":**
Brachyspira hyodysenteriae, Lawsonia intracellularis, Salmonella spec.
- No. _____ **PCR "Reproduction":**
Chlamydia, Leptospira, PCV2/3, PPV, PRRSV
- No. _____ **PCR "Rota-/Coronavirus":**
Rotavirus group A / C, TGEV, PEDV
- No. _____ **PCR "Oral Fluids" for Herd Check:**
M. hyopneu., M. hyorhinis, IAV, PCMV, PCV2, PRCV, PRRSV, PPV, PEDV, Rotavirus A/C, Brachyspira hyodysenteriae, Lawsonia intracellularis
- No. _____ **PCR "Outdoor Pigs" - Feces:**
Brachyspira, with differentiation of species (PCR), Lawsonia intracellularis (PCR), Salmonella Choleraesuis-Typhimurium (PCR), Detection of parasites

Multiplex PCRs

- No. _____ **Multiplex PCR "Neumünster":**
M. hyopneu., 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



Tests requested:

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

- 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 gene (PCR) (colistin resistance)**
- No. **MRSA Methicillin-Resistant Staphylococcus aureus**
mecA gene and PBP2 expression (PCR & agglutination)
- No. **Pasteurella multocida toxin**
Detection of *toxA* gene (PCR)
- No. **Pasteurella multocida capsular typing**
Capsular type A, B, D, E and F as well as haemorrhagic septicaemic (HS) capsular type B (PCR)
- No. **Porcine Mycoplasma** Differentiation of: *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
- 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)

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. _____ **Macroscopic** examination of organs / fetuses

No. _____ **Histology** with a simple report
(standard)

No. _____ **Histology** with a detailed report

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.

Comments:

Immunohistology

No. _____ *Actinobacillus pleuropneumoniae*

No. _____ Influenza A Virus (IAV)

No. _____ *Lawsonia intracellularis*

No. _____ *Leptospira*

No. _____ *M. hyopneumoniae*

No. _____ PCV2

No. _____ PRRSV

No. _____ Rotavirus group A

For information about suitable specimen for the detection of various agents see our website <https://www.ivd-gmbh.de> or call us (+49 511 220029-0). On our website you will also find a request form for suitable packaging material for samples.