

# 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>

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

<b>Sampling date:</b>				
<b>Type of operation: breeding:</b> <input type="checkbox"/> sows <input type="checkbox"/> boars <input type="checkbox"/> multiplier <input type="checkbox"/> production of gilts <input type="checkbox"/> production of boars <b>mast:</b> <input type="checkbox"/> farrowing operation <input type="checkbox"/> nursery <input type="checkbox"/> finishing operation <input type="checkbox"/> closed system				
<b>Herd size:</b>	number of <input type="checkbox"/> sows / <input type="checkbox"/> boars:	number of piglets:	number of fatteners:	total number of animals:
<b>Symptoms:</b> <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:				
<b>Clinical history:</b>				
<b>Animals treated:</b>	<input type="checkbox"/> no <input type="checkbox"/> yes	For how long / last on:	with:	
<b>Animals vaccinated against:</b>	<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>

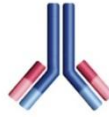
Sample No.	animal ID / bar code	material *	sex / age **	Sample No.	animal ID / bar code	material *	sex / age **
1				26			
2				27			
3				28			
4				29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
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24				49			
25				50			

\* 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 (standard)
- No.  PCV2 ELISA (alternative 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\*

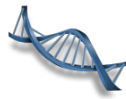
more tests and services on request

### 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 (IgG titer), 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  
 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. 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*

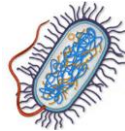
### PCR "Outdoor Pigs" - Feces:

- 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

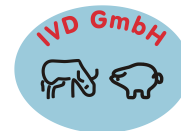
#### Detection of parasite stages in feces:

- 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.