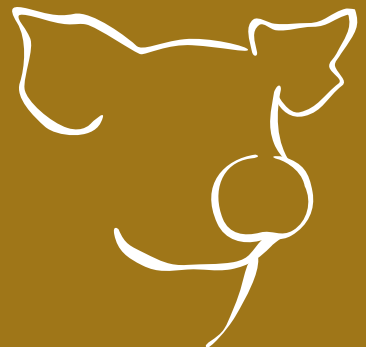




::DIAGNOSTIC SERVICES





## :: Providing personal and intensive support is important to us

Vaxxinoa Diagnostics GmbH · Deutscher Platz 5e · 04103 Leipzig · Germany  
[www.vaxxinoa-diagnostics.de](http://www.vaxxinoa-diagnostics.de)



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### Customer Service

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## :: Vaxxinoa Diagnostics business hours

You can contact us from Monday to Friday at our business hours 8.00 till 18.00 o'clock. Additionally, we offer you the possibility to deposit your samples in our sample cooler in the parking courtyard of the Bicity Leipzig. We look forward to describe the way to the cooler to you via phone or email. Please be aware, that the sample package shouldn't be larger than 35 x 20 x 20 cm.

Vaxxinoa Diagnostics offers you a large diagnostic portfolio since 2012. Our laboratory is accredited according to DIN EN ISO/IEC 17025. Examinations that do not fall under the specifications of the national accreditation authority are accordingly labelled. We can provide the list of accredited examinations to you in advance.

## :: Sample transport / Courier services

When you submit samples to us, they will be received by our friendly office staff who will also be your point of contact for any queries. Submission forms can be downloaded from our website [www.vaxxinoVA-diagnostics.de](http://www.vaxxinoVA-diagnostics.de). On our website, you find our current offer of all examinations in the navigation area "diagnostic services".

### Please send your samples to:

VaxxinoVA Diagnostics GmbH · Deutscher Platz 5e · 04103 Leipzig · Germany

If you have any questions, please contact us at T +49 (0) 341 463 79 8 50.

Please find below an exemplary list of couriers that deliver diagnostic samples to VaxxinoVA Diagnostics: UPS, DHL, FedEx, TNT.

When sending by courier it should be explained that the sample is for routine diagnostic testing and is non-hazardous. Please check your national regulations for the labeling of packages.

### Guidelines for packaging your samples:

- Ensure the sample is sealed securely and wrapped in cotton wool or paper towel.
- Enclose the sample in a small rigid container that prevents leakage.
- Ensure all the details are filled out on the submission form  
(who gets reports, invoice; examinations).
- Put the box, submission form and payment information inside a padded envelope.

## :: Other services

Forwarding of isolates .....

Forwarding of sample material .....



## :: Serology (antibodies)

- Actinobacillus pleuropneumoniae (APP)** .....  
Screening
- Actinobacillus pleuropneumoniae (APP)** .....  
ApxIV – antibodies
- Actinobacillus pleuropneumoniae (APP)** .....  
Serotype 1/9/11
- Actinobacillus pleuropneumoniae (APP)** .....  
Serotype 2
- Actinobacillus pleuropneumoniae (APP)** .....  
Serotype 3/6/8
- Actinobacillus pleuropneumoniae (APP)** .....  
Serotype 4/7
- Actinobacillus pleuropneumoniae (APP)** .....  
Serotype 5
- Actinobacillus pleuropneumoniae (APP)** .....  
Serotype 10
- Actinobacillus pleuropneumoniae (APP)** .....  
Serotype 12
- African swine fever virus (ASFV)** .....
- Brucella spp.** .....  
Rose-Bengal-Test (RBT)
- Brucella spp.** .....  
Svanovir c-ELISA
- Clostridium perfringens** .....  
Toxovar A (alpha-toxin)
- Erysipelothrix rhusiopathiae (erysipelas)** .....  
Screening
- Erysipelothrix rhusiopathiae (erysipelas)** .....  
Quantitative (titre)
- Glaesserella parasuis (GPS)** .....  
OppA
- Hepatitis E virus (HEV)** .....

## :: Serology (antibodies)

<b>Influenza A virus</b>	.....
Screening, early detection	
<b>Influenza A virus</b>	.....
Oral fluid	
<b>Influenza A virus</b>	.....
Subtype H1N1 (HAI)	
<b>Influenza A virus</b>	.....
Subtype H3N2 (HAI)	
<b>Influenza A virus</b>	.....
Subtype H1N2 (HAI)	
<b>Influenza A virus</b>	.....
Pandemic subtype H1N1 (HAI)	
<b>Classical swine fever virus (CSFV)</b>	.....
<b>Lawsonia intracellularis</b>	.....
<b>Leptospira serovars</b>	.....
MAT – each serovar	
<b>Mycoplasma hyopneumoniae</b>	.....
Screening	
<b>Mycoplasma hyopneumoniae</b>	.....
Confirmation test	
<b>Porcine circovirus type 2 (PCV-2)</b>	.....
Biochek, quantitative (titre)	
<b>Porcine circovirus type 2 (PCV-2)</b>	.....
IgG/IgM	
<b>Porcine epidemic diarrhoea virus (PEDV)</b>	.....
<b>Porcine respiratory coronavirus (PRCV)</b>	.....
<b>Porcine parvovirus (PPV)</b>	.....
Quantitative (titre)	



## :: Serology (antibodies)

**PRRSV** .....

IDEXX X3

**PRRSV** .....

Ingenasa 2.0

**PRRSV** .....

Biochek

**PRRSV** .....

Oral fluid

**Salmonella LPS** .....

**Entry into QS-database** .....

**Subsequent entry to QS-database** .....

Processing fee

**Sarcoptes scabiei var. suis** .....

**Suid Herpesvirus 1 (SuHV-1, Aujeszky's disease)** .....

gB (Screening non-vaccinated)

**Transmissible gastroenteritis virus (TGEV)** .....

**Trichinella spiralis** .....

**Swine vesicular disease virus (SVDV)** .....

## ::Serology - Profiles & Panels

### **PROFILE** Actinobacillus pleuropneumoniae (APP)

#### serotyping

Serotype 1/9/11  
Serotype 2  
Serotype 3/6/8  
Serotype 4/7  
Serotype 5  
Serotype 10  
Serotype 12

### **PROFILE** Influenza A virus

#### subtyping (HAI)

Subtype H1N1  
Subtype H1N2  
Subtype H3N2  
Pandemic Subtype H1N1

### **PROFILE** Leptospira

#### serotyping (MAT)

Leptospira Bratislava  
Leptospira Pomona  
Leptospira Tarassovi

Upon request, other serovars can also be examined.

*Please ask us for your own personalised Profile & Panel.*



:: PCR (detection of nucleic acid)

- Actinobacillus pleuropneumoniae (APP) .....
- African swine fever virus (ASFV) .....
- Brachyspira hampsonii .....
- Brachyspira hyodysenteriae / pilosicoli .....
- Bordetella bronchiseptica .....
- Chlamydia spp. ....
- Chlamydia spp. ....  
Differentiation (C. suis, C. pecorum, C. abortus, C. psittaci)
- Clostridioides difficile .....
- Erysipelothrix rhusiopathiae (erysipelas) .....
- incl. Differentiation (E. rhusiopathiae, E. tonsillarum, E. sp. strain 2)
- E. coli F4, F18, Stx2e PCR .....
- Glaesserella parasuis (GPS) .....
- Hepatitis E virus (HEV) .....
- Influenza A virus .....
- Influenza A virus subtyping .....
- H1N1, H1N2, H3N2, H1panN1 and H1panN2
- Classical swine fever virus (CSFV) .....
- Lawsonia intracellularis .....
- Leptospira spp. ....
- pan Mycoplasma spp. ....
- Mycoplasma hyopneumoniae .....
- Mycoplasma hyorhinitis .....
- Mycoplasma hyosynoviae .....
- Mycoplasma suis (porcine eperythrozoonosis) .....
- EDTA-blood
- Pasteurella multocida .....
- No detection of toxin
- Pasteurella multocida .....
- Toxigenic (PMT toxA)



## :: PCR (detection of nucleic acid)

<b>Porcine circovirus type 1 (PCV-1)</b>	.....
<b>Porcine circovirus type 2 (PCV-2)</b>	.....
Semi-quantitative (ct-value)	.....
<b>Porcine circovirus type 2 (PCV-2)</b>	.....
Quantitative (amount of genome equivalents)	.....
<b>Porcine circovirus type 2 (PCV-2)</b>	.....
Sequencing	.....
<b>Porcine circovirus type 2 (PCV-2)</b>	.....
Genotyping – PCV-2A, 2B, 2D	.....
<b>Porcine circovirus type 3 (PCV-3)</b>	.....
<b>Porcine coronavirus (TGEV, PEDV, delta coronavirus)</b>	.....
<b>Porcine cytomegalovirus (PCMV)</b>	.....
<b>Porcine parvovirus (PPV)</b>	.....
<b>Porcine respiratory coronavirus (PRCV)</b>	.....
<b>Porcine teschovirus/sapelovirus</b>	.....
<b>PRRSV</b>	.....
Genotype 1 (EU), genotype 2 (US)	.....
<b>PRRSV</b>	.....
Porcilis DV vaccine strain	.....
<b>PRRSV</b>	.....
ORF 5 sequencing (other ORF's upon request)	.....
<b>Rotavirus A and C</b>	.....
<b>Salmonella enterica</b>	.....
All serovars	.....
<b>Streptococcus suis</b>	.....
<b>Suipoxvirus (swinepox)</b>	.....
<b>Yersinia enterocolitica</b>	.....
<b>Sequencing in general</b>	.....
<b>Comparison of sequence/alignment</b>	.....



## :: PCR - Profiles & Panels

### **PROFILE** abortion

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Chlamydia spp. - PCR  
Leptospira spp. - PCR  
Porcine circovirus type 2 (PCV-2) - PCR  
Porcine parvovirus (PPV) - PCR  
PRRSV - PCR

Other pathogens of abortion can be tested upon request, i.e. Salmonella, Teschovirus

### **PROFILE** arthritis /seositis

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Haemophilus parasuis  
Mycoplasma hyorhinis  
Mycoplasma hyosynoviae  
Streptococcus suis

### **PROFILE** Brachyspira /Lawsonia

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Brachyspira hyodysenteriae  
Brachyspira pilosicoli  
Lawsonia intracellularis

### **PROFILE** Multiplex Neumünster

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Influenza A virus  
Mycoplasma hyopneumoniae  
Mycoplasma hyorhinis  
Porcine circovirus type 2 (PCV-2)  
Porcine cytomegalovirus (PCMV)  
Porcine respiratory coronavirus (PRCV)  
PRRSV genotype 1 (EU)  
PRRSV genotype 2 (US)

### **PROFILE** PCV-2/PCV-3

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Porcine circovirus type 2 (PCV-2) semiquantitative  
Porcine circovirus type 3 (PCV-3)

### **PROFILE** rota- /coronavirus

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Porcine coronavirus (TGEV, PEDV, PDCoV)  
Rotavirus A and C

*Please ask us for your own personalised Profile & Panel.*

## :: Next Generation Sequencing

**PRRSV full genome sequencing** .....

**Analysis of pathogen spectrum (viruses, bacteria, parasites)** .....

*Individual analyses are possible upon request.*

## :: Bacteriology

### Basic methods

**Bacteriological examination** .....

Material-dependant cultures

**Identification** .....

**Antimicrobial susceptibility testing (AST)** .....

Broth microdilution (MIC), aerobic bacteria

**Antimicrobial susceptibility testing (AST)** .....

Broth microdilution (MIC), anaerobic bacteria

**Antimicrobial susceptibility testing (AST)** .....

Broth microdilution (MIC), Mycoplasma spp.

**Identification of submitted isolates** .....

**Subculture for typing** .....

### Methods of specific pathogens

**Culture for Brachyspira spp.** .....

**Identification of Brachyspira spp. (PCR)** .....

**Culture for Clostridioides difficile** .....

**Culture for Mycoplasma spp.** .....

**Identification of Mycoplasma spp. (PCR)** .....

**Culture for Salmonella spp.** .....



## :: Pathogen typing

### **Actinobacillus pleuropneumoniae (APP) typing – PCR**

Serotypes 1 – 18

### **Actinobacillus pleuropneumoniae (APP) toxin gene profiling – PCR**

Apx-toxins Apx I, Apx II, Apx III, Apx IV

### **Clostridium perfringens typing – PCR**

Alpha-toxin  
Beta-toxin  
Beta2-toxin  
Epsilon-toxin  
Iota-toxin  
Enterotoxin

### **Clostridium perfringens toxin production – ELISA**

Alpha-toxin detection  
Beta2-toxin detection

### **Clostridium difficile typing – PCR**

Enterotoxin A  
Cytotoxin B  
Binary toxin

### **E. coli virulence marker – PCR**

Fimbrial antigen F4  
Fimbrial antigen F5  
Fimbrial antigen F6  
Fimbrial antigen F18  
Fimbrial antigen F41  
Heat-stable toxin I (ST I)  
Heat-stable toxin II (ST II)  
Heat-labile toxin (LT)  
Shiga toxin (Stx2e)  
fimA, fimH (type-1-fimbriae)  
Enterogastr. heat-stable enterotoxin 1 (EAST-1)  
Adhesin involved in diffuse adherence (AIDA)  
Porc. attaching-effacing assoc. protein (pAA)

## :: Pathogen typing

**Glaesserella parasuis (GPS) typing – PCR** .....  
 Serotypes 1-15

**Glaesserella parasuis (GPS) typing – PCR** .....  
 Virulence potential

**PROFILE Glaesserella parasuis – PCR** .....  
 Serotypes 1-15 and virulence potential

**Pasteurella multocida Toxin** .....  
 PMT toxA (isolate)

**Salmonella sp. serovar typing** .....  
 Agglutination / Kauffmann-White classification

**Test for Salmonella Typhimurium vaccine strain** .....

**Staphylococcus aureus typing – PCR** .....  
 MRSA (mecA)

**Staphylococcus hyicus /chromogenes typing – PCR** .....  
 Exfoliative toxin A  
 Exfoliative toxin B  
 Exfoliative toxin C  
 Exfoliative toxin D  
 Exfoliative toxin shetB

**Streptococcus suis typing – PCR** .....  
 Serotypes 1-21  
 Virulence factors: epf, mrp, sly

**Streptococcus suis typing – PCR** .....  
 Virulence potential

**Streptococcus suis typing and virulence potential – PCR** .....  
 Serotypes 1-21  
 Virulence factors: epf, mrp, sly  
 Virulence potential



## :: Bacteriology – Profiles & Panels

### **PROFILE suckling piglet diarrhoea**

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Bacteriological examination aerobic/anaerobic  
Antimicrobial susceptibility testing (AST)  
Culture for Salmonella spp.  
Porcine coronavirus (TGEV, PEDV, PDCoV) – PCR  
Rotavirus A and C – PCR  
Endoparasites

### **PROFILE weaner diarrhoea**

---

Bacteriological examination aerobic/anaerobic  
Antimicrobial susceptibility testing (AST)  
Culture for Salmonella spp.  
Porcine coronavirus (TGEV, PEDV, PDCoV) – PCR  
Rotavirus A and C – PCR  
Endoparasites  
Lawsonia intracellularis – PCR

### **PROFILE fattening pig diarrhoea**

---

Bacteriological examination aerobic  
Antimicrobial susceptibility testing (AST)  
Culture for Salmonella spp.  
Porcine coronavirus (TGEV, PEDV, PDCoV) – PCR  
Rotavirus A and C – PCR  
Brachyspira hyodysenteriae – PCR  
Brachyspira pilosicoli – PCR  
Lawsonia intracellularis – PCR

*Please ask us for your own personalised Profile & Panel.*

## :: Bacteriology – Profiles & Panels

### **PROFILE edema disease**

Bacteriological examination for E. coli  
E. coli fimbrial antigen F18 – PCR  
E. coli shiga toxin (Stx2e) – PCR

### **PROFILE respiratory tract pathogens**

Bacteriological examination  
Antimicrobial susceptibility testing (AST)  
Influenza A virus – PCR  
Mycoplasma hyorhinis – PCR  
Mycoplasma hyopneumoniae – PCR  
PRRSV – PCR

### **PROFILE urinary tract infection**

Clin.-chemical urinalysis  
Bacteriological examination  
Antimicrobial susceptibility testing (AST)

*Please ask us for your own personalised Profile & Panel.*



## ::Pathology

**Histology** .....

**Disposal of carcasses** .....

## ::Parasitology

**Endoparasites** .....

    Combined sedimentation / flotation

**Ectoparasites** .....



## :: Clinical chemistry (from serum)

<b>Alanine aminotransferase (ALT)</b>	.....
<b>Albumin</b>	.....
<b>Alkaline phosphatase (AP)</b>	.....
<b>Amylase</b>	.....
<b>Aspartate aminotransferase (AST)</b>	.....
<b>Bilirubin total</b>	.....
<b>Calcium</b>	.....
<b>Chloride</b>	.....
<b>Creatine kinase (CK)</b>	.....
<b>Iron</b>	.....
<b>Gamma-glutamyltransferase (gamma-GT)</b>	.....
<b>Protein total</b>	.....
<b>Glucose</b>	.....
<b>Glutamate dehydrogenase (GLDH)</b>	.....
<b>Urea</b>	.....
<b>Potassium</b>	.....
<b>Creatinine</b>	.....
<b>Copper</b>	.....
<b>Magnesium</b>	.....
<b>Manganese</b>	.....
(heparin, EDTA-blood)	
<b>Sodium</b>	.....
<b>Phosphate</b>	.....
<b>Selenium</b>	.....
<b>Vitamin A (retinol)</b>	.....
light-protected	
<b>Vitamin D (1,25-OH)</b>	.....
<b>Vitamin E (tocopherol)</b>	.....
light-protected	
<b>Vitamin H (biotin)</b>	.....
<b>Zinc</b>	.....



## :: Clinical chemistry – Profiles & Panels

### **PROFILE** Basic profile metabolism (from serum) .....

Albumin  
Bilirubin total  
Protein total  
Glucose  
Urea  
Creatinine  
Alkaline phosphatase (AP)  
ALT  
AST  
GLDH  
Gamma-GT  
Amylase  
Creatine kinase (CK)  
Sodium  
Potassium  
Calcium  
Phosphate  
Magnesium  
Chloride  
Iron

### **PROFILE** trace elements (from serum, light-protected) .....

Copper  
Selenium  
Vitamin E (tocopherol)  
Zinc

## :: Clinical chemistry – Profiles & Panels

### **PROFILE Partial blood count (from EDTA blood)**

Leucocytes  
Erythrocytes  
Haemoglobin  
Hematocrit  
Thrombocytes

### **PROFILE Complete blood count (from EDTA blood)**

Leucocytes  
Erythrocytes  
Haemoglobin  
Hematocrit  
Segmented neutrophils  
Banded neutrophils  
Eosinophil granulocytes  
Basophil granulocytes  
Lymphocytes  
Monocytes  
Thrombocytes



## :: General Information

If there are additional parameters that you need examined, please contact us and we will try to help you.

## :: Invoicing

The invoice will be sent to the veterinarian after the report has been issued. The examinations will be invoiced monthly or at fortnightly intervals.

Our general terms and conditions apply to the provision of all our services. Please find them at [www.vaxxinova-diagnostics.de](http://www.vaxxinova-diagnostics.de), as well as our data privacy statement.

Valid from January 1, 2020.

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:: Notes

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