# Request for Diagnostic Testing Pig / Swine

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



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



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**E-Mail:** service@ivd-gmbh.de <a href="http://www.ivd-gmbh.de">http://www.ivd-gmbh.de</a>

Veterinarian / Sender: (Please include fax or e-mail for result reports.)		Address of owner: (Please include fax or e-mail for result reports.)		Other: (Please include fax or e-mail for result reports.)			
(1 loaded morado tax of e mainte	r rocuit roporto.)			(Flease ilicidue la	ix or e-mail for result reports.)		
Name	Name		Name				
Street		Street			Street		
City / Postal code		City / Postal cod	le		City / Postal code	City / Postal code	
Country		Country			Country		
Phone		Phone			Phone		
Fax		Fax			Fax		
E-Mail:  Vet-ID-Nr.: (for Salmonella monitoring Qua	lliproof <sup>®</sup> by QS)	E-Mail: VVVO-Nr.: (for Salmone	ella monitoring Qualip	roof <sup>®</sup> by QS)	E-Mail:		
Results to:  ☐ Veterinarian ☐ by e-ma	ail □ by fax			e <u>only</u> to: narian / Sende	r 🔲 by e-mail	□ by fav	
☐ Animal owner ☐ by e-ma	all ☐ by fax all ☐ by fax all ☐ by fax		Veter	nanan/ Sende	i	□ by lax	
Sampling date:							
Type of operation: breed n		s  boars owing operation	☐ multiplier ☐ nursery		tion of gilts	☐ production of boars ☐ closed system	
Herd size: number of	Herd size: number of ☐ sows / ☐ boars: number of piglets: number of fatteners:						
Symptoms: no symp						neurological	
Clinical history:							
Animals treated:	☐ no ☐ yes	For how lon	a / last on:	with:			
Allillais treateu.		1 Of HOW IOH	g / last on.	WILII.			
Animals vaccinated: PRRSV		☐ no ☐ yes	last vaccination or		vaccine:		
	PCV2	☐ no ☐ yes	last vaccination	on:	vaccine:		
M. hyo	☐ no ☐ yes	last vaccination on:		vaccine:			
Other:	☐ no ☐ yes	last vaccination on:		vaccine:			
	1		<u>I</u>		1		
Location and date	Signature of veterinarian / sender						

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 http://www.ivd-gmbh.de

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			

<sup>\*</sup> 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

<u>esteu</u> :	- 111
I tests for specific agents of antibodies)	

(Detection	of a	antibodies) 🥟 🔻
No.		AKV (Virus of Aujeszky's Disease or Pseudorabies also PRV) ELISA
No.		App (Actinobacillus pleuropneumoniae) ApxIV ELISA (standard)
No.		App LPS Mix ELISA
No.		App ELISA <u>virulent plus</u> screening: highly virulent serotypes 1/9/11, 5a/b & 2 (dominant in EU)
No.		App ELISA <u>full</u> 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.		Brucella RBT
No.		Chlamydia CFT
No.		CSFV (Virus of Classical or European Swine Fever) ELISA
No.		Erysipelothrix rhusiopathiae ("Erysipelas") ELISA
No.		Hps (Haemophilus parasuis) ELISA
No.		Influenza A Virus (IAV) ELISA (standard)
No.	_	Influenza A Virus (IAV) or Swine Influenza A Virus (SIV) HI (H1N1, H1N2, H3N2, pH1N1 & pH1N2) (recommended for vaccinated sows, <b>no EDTA!</b> )
No.		Lawsonia intracellularis ELISA
No.		Leptospira (pathogenic serovars) MAT
No.		Mycoplasma hyopneumoniae ELISA (standard)
No.		M. hyopneumoniae ELISA (alternative)
No.		Mycoplasma hyorhinis ELISA
No.		PMT (Pasteurella multocida toxin) ELISA
No.		PCV2 (Porcine Circovirus 2) IgM/IgG ELISA (standard)
No.		PCV2 ELISA (titration)
No.		PEDV ELISA
No.		PPV (Porcine Parvovirus) ELISA
No.		PRRSV (Porcine Reproductive and Respiratory Syndrome Virus) ELISA (standard)
No.		PRRSV ELISA (alternative)

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No.	☐ Salmonella ELISA
	☐ Export into Qualiproof <sup>®</sup> data base (QS)
No.	☐ Sarcoptes scabiei var. suis ELISA
No.	SVDV (Virus of Swine Vesicular Disease) ELISA
No.	TGEV (Virus of Transmissible Gastroenteritis) ELISA
No.	☐ Yersinia (pathogenic) ELISA
Serologic	al Screenings
No.	Screening for fattening pigs  App, PMT, PRRSV, Salmonella
No.	☐ Respiratory screening "Ahlem":  App, M. hyopneu., IAV (ELISA/☐ HI), PRRSV
No.	Respiratory screening "Glässer":  App, Hps, IAV (ELISA/ HI), PRRSV
No.	Reproductive tract screening "Ery+Parvo": PRRSV, PPV, Leptospira, Erysipelas
No.	Reproductive tract screening "Melle":  IAV (ELISA/□ HI), PCV2 (IgM/IgG),  PRRSV, Leptospira
No.	☐ Health Check "Swine":  App, M. hyopneu., Erysipelas,  Leptospira, IAV (ELISA/☐ HI), PRRSV,  PPV

Important!
The material best suited for all serological examinations is serum or blood without anticoagulants. Furthermore, detection of antibodies is also possible in bodily fluids, especially oral fluids. Please call us (+49 511 220029-0) or see our website <a href="http://www.ivd-qmbh.de">http://www.ivd-qmbh.de</a> for more information.

No.

☐ PRRSV OF ELISA

for oral fluids only

## **Tests requested:**

PCR tests	TOI	specific agents			
		pool of (up to 5) individual samples is to be 4, 5-8 or 1+2+11+12+13, etc.	No.		Nucleotide sequence analysis of a PRRS PCR product incl. alignment with the
No.		A. pleuropneumoniae (App)			reference strain of each genotype (Lelystad or VR-2332 = Ingelvac PRRS
No.		Brachyspira hyodysenteriae			MLV (BIV))
No.		Brachyspira spec.,		_	Alignment with other PRRSV sequences:
		B. pilosicoli, B. hampsonii clade I+II, B. innocens, B. intermedia, B. murdochii	type 1 (EU)	Ш	Porcilis PRRS strain DV (MSD/Intervet)
No		and B. suanatina	type 1 (EU)		Unistrain PRRS strain VP-046 bis (Hipra)
No.	_⊔	Brachyspira with differentiation of all species above incl. Brachyspira hyodysenteriae	type 1 (EU)		ReproCyc/Ingelvac Flex PRRS EU strain 94881 MSV (Boehringer Ingelheim
No.		Campylobacter sp., C. coli and C. jejuni	type 1 (EU)		96V198 (Zoetis)
No.	_	Chlamydia			
No.		Chlamydia with differentiation of species	No.		Rotavirus group A / C
No.	_	Coronavirus (TGEV + PEDV)	No.		Salmonella spec., Serovar Choleraesuis and Typhimurium
No.		Haemophilus parasuis + potential virulence marker	No.		Streptococcus suis
No.		Influenza A Virus (IAV)	lun un a ut a un t l		
		SIV (Swine Influenza Virus) Subtyping (only subsequent to positive IAV PCR)	Important! If swabs are umedium.	used	for PCR, they have to be dry and free of
No.		Lawsonia intracellularis	PCR Scre		_
No.		Lawsonia intracellularis quantitative PCR	(combinat	ion	of single PCRs)
		(Only testing of individual samples is useful!)	No.		PCR "Respiration": App, M. hyopneu., IAV, PRRSV
No.		Leptospira (pathogenic serovars)	No.	_□	PCR "Bakum"  M. hyopneu., IAV, PCV2, PRRSV
No.	_	Mycoplasma hyopneumoniae	No.		PCR "Dessau"  App, M. hyopneu., PCV2, PRRSV
No.		Mycoplasma hyorhinis	No.		PCR "Dysentery/lleitis":
No.	_□	Mycoplasma hyosynoviae			Brachyspira hyodysenteriae, Lawsonia intracellularis
No.		Mycoplasma suis ("Eperythrozoonosis")	No.		PCR "Enteritis":
No.		Pasteurella multocida toxin A			Brachyspira hyodysenteriae, Lawsonia intracellularis, Salmonella sp.
No.	_	PCV2	No.		PCR "Reproduction": Chlamydia, Leptospira, PCV2, PPV,
No.	_ 🗆	PCV2 quantitative PCR (Only testing of individual samples is	No.		PRRSV PCR "Rota-/Coronavirus" Rotavirus group A / C, TGEV, PEDV
No.		useful!) Nucleotide sequence analysis of a PCV2	Multiplex	PC	
140.		PCR product (orf2) incl. alignment	No.		Multiplex PCR "Neumünster":
No.	_ 🗆	PPV	NO.		M. hyopneu., M. hyorhinis, IAV, PCMV, PCV2, PRCV, PRRSV
No.		PRRSV EU/NA/HP (European and North American genotype	No.		Multiplex PCR "APP/HPS + vir":
		or rather species PRRSV-1 and PRRSV-			App, Hps + potential virulence marker
		2 as well as "highly pathogenic" PRRSV NA variants)	No.	_⊔	Multiplex PCR "Serositis":  Hps + potential virulence marker,
No		PRRSV DV			M. hyorhinis

No.

☐ PRRSV DV

(PRRSV EU vaccine strain)

No.

Multiplex PCR "Arthritis":

Hps, M. hyorhinis, M. hyosynoviae,

Streptococcus suis

## **Tests requested:**



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e in	



Bacteriolog	gic	al testing	
No.		Examination by bacteriologica general	al culture in
No.		Examination by bacteriologica only for: (agents)	al culture
No.		Asservation of pathogenic iso	lates
Antimicrob of pathoge		susceptibility testing	
No.		Agar Diffusion Test	
No.		Microdilution technique	
Typing of k	oac	terial isolates	
No.		App Apx toxin typing (PCR)	
No.		App Serotyping (PCR)	
No.	. 🗆	Clostridium difficile Toxin genes A/B and binary to A/B (PCR)	oxin genes
No.		Clostridium perfringens Genotyping and toxin product (PCR & Immunoblot)	ion
	Ш	only PCR	
		only Immunoblot	
No.		<b>Escherichia coli</b> Virulence-associated factors incl. "Edema disease"	
No.		<i>Haemophilus parasuis</i> Sero (PCR)	typing
No.		vtaA-LS-PCR Prognosis of the virulence por Haemophilus parasuis	tential of
No.		mcr-1 gene (PCR) (colistin	esistance)
No.		MRSA Methicillin-Resistant Staphylococcus aureus mecA gene and PBP2 expres (PCR & agglutination)	sion
No.		Pasteurella multocida toxin Detection of toxA gene (PCR)	
No.		Porcine Mycoplasma Differe M. flocculare, M. hyopneumo M. hyosynoviae, M. hyorhinis	entiation of: niae,
No.		Salmonella Serotyping: Serogroups A-E and F-67 (AC	. ,
No.		Staphylococcus hyicus Exfoliative toxin genes A-D ar virulence-associated factor (F	nd
No.		Streptococcus suis Capsular type (cps 1, 2, 7 or svirulence-associated factors (	9) and

Parasitological testing					
No.	Coccidiae (Eimeria spec. and Isospora suis) detection (feces)				
No.	☐ Cryptosporidium detection (feces)				
No.	Examination for worm eggs (feces)				
No.	Sarcoptes mites detection (deep skin scraping)				
Pathologic	cal testing				
No.	☐ Macroscopic examination				
No.	Histology with a simple report (standard)				
No.	☐ Histology with a detailed report				
Immunohi	stology				
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 specimens for the detection of various agents see our website <a href="http://www.ivd-gmbh.de">http://www.ivd-gmbh.de</a> or call us (+49 511 220029-0).

### Further testing and services on request: e.g. examinations for the international swine trade (incl.

Classical Swine Fever, Aujezky's disease, TGE provision of characterized, bacterial isolates, et	E, SVD etc.);

## **Comments:**

No.

☐ 16S rRNA typing

for identification of any bacterial species