Annex I

List of the names, pharmaceutical forms, strengths of the veterinary medicinal products, animal species, routes of administration, marketing authorisation holder(s) in the Member States

Member State EU/EEA	Marketing authorisation holder	Name	INN	Strength	Pharmaceutical form	Animal species	Route of administration
Austria	Laboratorios Hipra, S.A. Avda. la Selva, 135 17170 Amer (Girona) Spain	UNISTRAIN PRRS Lyophilisat und Lösungsmittel zur Herstellung einer Injektionssuspension für Schweine	Live attenuated PRRS virus, strain VP-046 BIS	10 ^{3.5} -10 ^{5.5} CCID ₅₀ ¹	Lyophilisate and solvent for suspension for injection	Pigs	Intramuscular use Intradermal use
Austria	Boehringer Ingelheim Vetmedica GmbH Binger Straße 173 55216 Ingelheim am Rhein Germany	Ingelvac PRRSFLEX EU Lyophilisat und Lösungsmittel zur Herstellung einer Injektionssuspension für Schweine	Live attenuated PRRS virus, strain 94881 (genotype 1)	10 ^{4.4} -10 ^{6.6} TCID ₅₀ ²	Lyophilisate and solvent for suspension for injection	Pigs	Intramuscular use
Austria	CEVA-Phylaxia Veterinary Biologicals Co. Ltd. Szállás Utca 5 1107 Budapest Hungary	Persovac Lyophilisat und Lösungsmittel zur Herstellung einer Injektionssuspension für Schweine	Live PRRS virus, strain P120	10 ^{4.0} -10 ^{7.3} CCID ₅₀	Lyophilisate and solvent for suspension for injection	Pigs	Intramuscular use
Austria	Intervet GmbH Siemensstraße 107 1210 Vienna Austria	Porcilis PRRS, Lyophilisat und Lösungsmittel zur Herstellung einer Injektionssuspension für Schweine	Live attenuated PRRS virus, strain DV	10 ^{4.0} -10 ^{6.3} TCID ₅₀	Lyophilisate and solvent for suspension for injection	Pigs	Intramuscular use Intradermal use

Cell culture infectious dose 50%
 Tissue culture infectious dose 50%

Austria	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	Lyophilisat und	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	Lösungsmittel zur	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	Herstellung einer	strain 94881		injection		
	Germany	Injektionssuspension für	(genotype 1)				
		Schweine					
Belgium	Laboratorios Hipra, S.A.	Unistrain PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135		attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)		PRRS virus,		suspension for		Intradermal use
	Spain		strain VP-046		injection		
			BIS				
Belgium	Boehringer Ingelheim	ReproCyc PRRS EU &	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	ImpranFLEX	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Belgium	Intervet International B.V.	Porcilis PRRS	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35		attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN		PRRS virus,		suspension for		Intradermal use
	The Netherlands		strain DV		injection		
Belgium	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Belgium	Boehringer Ingelheim	Ingelvac PRRS Modified	Live	min. 10 ^{4.9}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	Live Virus	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain VR		injection		
	Germany		2332				

Belgium	CEVA-Phylaxia Veterinary	Persovac	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Biologicals Co. Ltd.		virus, strain	CCID ₅₀	solvent for		use
	Szállás Utca 5		P120		suspension for		
	1107 Budapest				injection		
	Hungary						
Bulgaria	Intervet International B.V.	Porcilis PRRS	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35		attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN		PRRS virus,		suspension for		Intradermal use
	The Netherlands		strain DV		injection		
Bulgaria	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	lyophilisate and solvent	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	for suspension for	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	injection for pigs	strain 94881		injection		
	Germany		(genotype 1)				
Bulgaria	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	Lyophilisate and solvent	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	for suspension for	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	injection for pigs	strain 94881		injection		
	Germany		(genotype 1)				
Bulgaria	Laboratorios Hipra, S.A.	UNISTRAIN PRRS	Live	103.5-105.5	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	Lyophilisate and solvent	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	for suspension for	PRRS virus,		suspension for		Intradermal use
	Spain	injection for pigs	strain VP-046		injection		
			BIS				
Croatia	Laboratorios Hipra, S.A.	UNISTRAIN PRRS,	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	liofilizat i otapalo za	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	suspenziju za injekciju,	PRRS virus,		suspension for		Intradermal use
	Spain	za svinje	strain VP-046		injection		
			BIS				

Croatia	Boehringer Ingelheim	Ingelvac PRRSFLEX EU,	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizat i otapalo za	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	suspenziju za injekciju,	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	za svinje	strain 94881		injection		
	Germany		(genotype 1)				
Croatia	Boehringer Ingelheim	ReproCyc PRRS EU,	Live	103.9-107.0	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizat i otapalo za	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	suspenziju za injekciju,	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	za svinje	strain 94881		injection		
	Germany		(genotype 1)				
Croatia	CEVA-Phylaxia Veterinary	Persovac, liofilizat i	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Biologicals Co. Ltd.	otapalo za suspenziju za	virus, strain	CCID ₅₀	solvent for		use
	Szállás Utca 5	injekciju, za svinje	P120		suspension for		
	1107 Budapest				injection		
	Hungary						
Croatia	Intervet International B.V.,	PORCILIS PRRS, liofilizat	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Podružnica u Republici	i diluent za injekcijsku	attenuated	TCID ₅₀	solvent for		use
	Hrvatskoj,	suspenziju, svinja	PRRS virus,		suspension for		Intradermal use
	Ivana Lučića 2a,		strain DV		injection		
	10000 Zagreb,						
	Croatia						
Cyprus	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	λυοφιλοποιημένη σκόνη	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	ка၊ Ingelvac PRRSFLEX	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	Ευ διαλύτης για ενέσιμο	strain 94881		injection		
	Germany	εναιώρημα για χοίρους.	(genotype 1)				
Cyprus	CEVA-Phylaxia Veterinary	PERSOVAC	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Biologicals Co. Ltd.	λυοφιλοποιημένο υλικό	virus, strain	CCID ₅₀	solvent for		use
	Szállás Utca 5	και διαλύτης για ενέσιμο	P120		suspension for		
	1107 Budapest	εναιώρημα για χοίρους			injection		
	Hungary						

Cyprus	Intervet International B.V.	PORCILIS PRRS	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35		attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN		PRRS virus,		suspension for		Intradermal use
	The Netherlands		strain DV		injection		
Cyprus	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	λυοφιλοποιημένο υλικό	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	каі ImpranFLEX	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	διαλύτης για ενέσιμο	strain 94881		injection		
	Germany	εναιώρημα για χοίρους	(genotype 1)				
Cyprus	Laboratorios Hipra, S.A.	UNISTRAIN PRRS	Live	103.5-105.5	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	λυοφιλοποιημένη κόνις	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	και διαλύτης για ενέσιμο	PRRS virus,		suspension for		Intradermal use
	Spain	εναιώρημα για χοίρους	strain VP-046		injection		
			BIS				
Czech Republic	Laboratorios Hipra, S.A.	UNISTRAIN PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	lyofilizát a rozpouštědlo	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	pro injekční suspenzi	PRRS virus,		suspension for		Intradermal use
	Spain	pro prasata	strain VP-046		injection		
			BIS				
Czech Republic	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	lyofilizát a rozpouštědlo	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	pro injekční suspenzi	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	pro prasata	strain 94881		injection		
	Germany		(genotype 1)				
Czech Republic	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	lyofilizát a rozpouštědlo	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	pro injekční suspenzi	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	pro prasata	strain 94881		injection		
	Germany		(genotype 1)				

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Czech Republic	CEVA-Phylaxia Veterinary	Persovac lyophilisate	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Biologicals Co. Ltd.	and solvent for	virus, strain	CCID ₅₀	solvent for		use
	Szállás Utca 5	suspension for injection	P120		suspension for		
	1107 Budapest	for pigs			injection		
	Hungary						
Czech Republic	Intervet International B.V.	Porcilis PRRS lyofilizát	Live	10 ^{4.0} -10 ^{6.3}	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35	pro přípravu injekční	attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN	suspenze s	PRRS virus,		suspension for		Intradermal use
	The Netherlands	rozpouštědlem	strain DV		injection		
Czech Republic	Bioveta, a. s.	BIOSUIS PRRS live	Live	103.4-106.8	Lyophilisate and	Pigs	Intramuscular
	Komenského 212/12	lyofilizát a rozpouštědlo	attenuated	TCID ₅₀	solvent for		use
	683 23 Ivanovice na Hané	pro injekční suspenzi	PRRS virus,		suspension for		
	Czech Republic		strain BIO 60		injection		
			- EU				
Denmark	Boehringer Ingelheim	Ingelvac PRRS Vet.	Live	min. 10 ^{4.9}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain VR		injection		
	Germany		2332				
Denmark	Intervet International B.V.	Porcilis PRRS Vet.	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35		attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN		PRRS virus,		suspension for		Intradermal use
	The Netherlands		strain DV		injection		
Denmark	Laboratorios Hipra, S.A.	Unistrain PRRS	Live	103.5-105.5	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135		attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)		PRRS virus,		suspension for		Intradermal use
	Spain		strain VP-046		injection		
			BIS				

Estonia	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Estonia	CEVA-Phylaxia Veterinary	Persovac	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Biologicals Co. Ltd.		virus, strain	CCID ₅₀	solvent for		use
	Szállás Utca 5		P120		suspension for		
	1107 Budapest				injection		
	Hungary						
Estonia	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Estonia	Laboratorios Hipra, S.A.	Unistrain PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135		attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)		PRRS virus,		suspension for		Intradermal use
	Spain		strain VP-046		injection		
			BIS				
France	Intervet	Porcilis PRRS	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Rue Olivier de Serres		attenuated	TCID ₅₀	solvent for		use
	Angers Technopole		PRRS virus,		suspension for		Intradermal use
	49071 Beaucouze Cedex		strain DV		injection		
	France						
France	Laboratorios Hipra, S.A.	Unistrain PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	lyophilisat et solvant	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	pour suspension	PRRS virus,		suspension for		Intradermal use
	Spain	injectable pour porcins	strain VP-046		injection		
			BIS				

France	Boehringer Ingelheim Animal	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Health France	lyophilisat et Ingelvac	attenuated	TCID ₅₀	solvent for		use
	29 avenue Tony Garnier	PRRSFLEX EU solvant	PRRS virus,		suspension for		
	69007 Lyon	pour suspension	strain 94881		injection		
	France	injectable pour porcins	(genotype 1)				
France	Boehringer Ingelheim Animal	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Health France	lyophilisat et	attenuated	TCID ₅₀	solvent for		use
	29 avenue Tony Garnier	ImpranFLEX solvant	PRRS virus,		suspension for		
	69007 Lyon	pour suspension	strain 94881		injection		
	France	injectable pour porcins	(genotype 1)				
France	CEVA-Phylaxia Veterinary	Persovac lyophilisat et	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Biologicals Co. Ltd.	solvant pour suspension	virus, strain	CCID ₅₀	solvent for		use
	Szállás Utca 5	injectable pour porcins	P120		suspension for		
	1107 Budapest				injection		
	Hungary						
Germany	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Germany	Boehringer Ingelheim	Ingelvac PRRS MLV	Live	min. 10 ^{4.9}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain VR		injection		
	Germany		2332				
Germany	Ceva Tiergesundheit GmbH	Persovac	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Kanzlerstr. 4		virus, strain	CCID ₅₀	solvent for		use
	40472 Düsseldorf		P120		suspension for		
	Germany				injection		

Germany	Intervet Deutschland GmbH	Porcilis PRRS	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Feldstraße 1a		attenuated	TCID ₅₀	solvent for		use
	85716 Unterschleissheim		PRRS virus,		suspension for		Intradermal use
	Germany		strain DV		injection		
Germany	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Germany	Laboratorios Hipra, S.A.	Unistrain PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135		attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)		PRRS virus,		suspension for		Intradermal use
	Spain		strain VP-046		injection		
			BIS				
Greece	Intervet Hellas	Porcilis PRRS	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	63 Agiou Dimitriou St.,		attenuated	TCID ₅₀	solvent for		use
	17456, Alimos, Athens		PRRS virus,		suspension for		Intradermal use
	Greece		strain DV		injection		
Greece	Laboratorios Hipra, S.A.	Unistrain	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135		attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)		PRRS virus,		suspension for		Intradermal use
	Spain		strain VP-046		injection		
			BIS				
Greece	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				

Greece	Boehringer Ingelheim	ReproCyc PRRS EU	Live	103.9-107.0	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Hungary	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	vakcina A.U.V.	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Hungary	CEVA-Phylaxia Veterinary	Persovac vakcina A.U.V.	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Biologicals Co. Ltd.		virus, strain	CCID ₅₀	solvent for		use
	Szállás Utca 5		P120		suspension for		
	1107 Budapest				injection		
	Hungary						
Hungary	Intervet Hungaria Kft.	Porcilis PRRS vakcina	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Budapest, Lechner Odon	A.U.V.	attenuated	TCID ₅₀	solvent for		use
	fasor 8., 1095,		PRRS virus,		suspension for		Intradermal use
	Hungary		strain DV		injection		
Hungary	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	vakcina A.U.V.	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Hungary	Laboratorios Hipra, S.A.	Unistrain PRRS vakcina	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	A.U.V	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)		PRRS virus,		suspension for		Intradermal use
	Spain		strain VP-046		injection		
			BIS				

Ireland	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	lyophilisate and solvent	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	for suspension for	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	injection for pigs	strain 94881		injection		
	Germany		(genotype 1)				
Ireland	Intervet Ireland Limited	Porcilis PRRS	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Magna Drive Magna Business	lyophilisate and solvent	attenuated	TCID ₅₀	solvent for		use
	Park, Citywest Road,	for suspension for	PRRS virus,		suspension for		Intradermal use
	Dublin 24,	injection for pigs	strain DV		injection		
	Ireland						
Ireland	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	lyophilisate and solvent	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	for suspension for	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	injection for pigs	strain 94881		injection		
	Germany		(genotype 1)				
Ireland	Laboratorios Hipra, S.A.	UNISTRAIN PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	lyophilisate and solvent	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	for suspension for	PRRS virus,		suspension for		Intradermal use
	Spain	injection for pigs	strain VP-046		injection		
			BIS				
Italy	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizzato e Ingelvac	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	PRRSFLEX EU solvente	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	per sospensione	strain 94881		injection		
	Germany	iniettabile per suini	(genotype 1)				
Italy	CEVA-Phylaxia Veterinary	Persovac liofilizzato e	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Biologicals Co. Ltd.	diluente per sospensione	virus, strain	CCID ₅₀	solvent for		use
	Szállás Utca 5	iniettabile per suini	P120		suspension for		
	1107 Budapest				injection		
	Hungary						

Italy	Boehringer Ingelheim	ReproCyc PRRS EU	Live	103.9-107.0	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizzato e ReproCyc	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	PRRS EU solvente per	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	sospensione iniettabile	strain 94881		injection		
	Germany	per suini	(genotype 1)				
Italy	Intervet International B.V.	Porsilis PRRS liofilizzato	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35	e solvente per	attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN	sospensione iniettabile	PRRS virus,		suspension for		Intradermal use
	The Netherlands	per suini	strain DV		injection		
Latvia	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizāts un šķīdinātājs	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	suspensijas injekcijām	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	pagatavošanai cūkām	strain 94881		injection		
	Germany		(genotype 1)				
Latvia	CEVA-Phylaxia Veterinary	Persovac liofilizāts un	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Biologicals Co. Ltd.	šķīdinātājs suspensijas	virus, strain	CCID ₅₀	solvent for		use
	Szállás Utca 5	injekcijām	P120		suspension for		
	1107 Budapest	pagatavošanai cūkām			injection		
	Hungary						
Latvia	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizāts un šķīdinātājs	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	suspensijas injekcijām	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	pagatavošanai cūkām	strain 94881		injection		
	Germany		(genotype 1)				
Latvia	Intervet International B.V.	Porcilis PRRS liofilizāts	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35	un šķīdinātājs	attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN	suspensijas injekcijām	PRRS virus,		suspension for		Intradermal use
	The Netherlands	pagatavošanai cūkām	strain DV		injection		

Latvia	Laboratorios Hipra, S.A.	Unistrain PRRS liofilizāts	Live	103.5-105.5	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	un šķīdinātājs	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	suspensijas injekcijām	PRRS virus,		suspension for		Intradermal use
	Spain	pagatavošanai cūkām	strain VP-046		injection		
			BIS				
Lithuania	Boehringer Ingelheim	INGELVAC PRRS MLV,	Live	min. 10 ^{4.9}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	gyva liofilizuota vakcina	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	ir skiediklis	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain VR		injection		
	Germany		2332				
Lithuania	Boehringer Ingelheim	ReproCyc PRRS EU,	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizatas ir skiediklis	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	injekcinei suspensijai	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	ruošti kiaulėms	strain 94881		injection		
	Germany		(genotype 1)				
Lithuania	Boehringer Ingelheim	Ingelvac PRRSFLEX EU,	Live	10 ^{4.4} -10 ^{6.6}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizatas ir skiediklis	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	injekcinei suspensijai	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	ruošti kiaulėms	strain 94881		injection		
	Germany		(genotype 1)				
Lithuania	Laboratorios Hipra, S.A.	UNISTRAIN PRRS,	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	liofilizatas ir skiediklis	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	injekcinei suspensijai	PRRS virus,		suspension for		Intradermal use
	Spain	ruošti kiaulėms	strain VP-046		injection		
			BIS				
Lithuania	Intervet International B.V.	Porcilis PRRS, liofilizatas	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35	ir skiediklis injekcinei	attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN	suspensijai kiaulėms	PRRS virus,		suspension for		Intradermal use
	Nyderlanda		strain DV		injection		

Luxembourg	Laboratorios Hipra, S.A.	Unistrain PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	lyophilisat et solvant	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	pour suspension	PRRS virus,		suspension for		Intradermal use
	Spain	injectable	strain VP-046		injection		
			BIS				
Luxembourg	Boehringer Ingelheim	ReproCyc PRRS EU &	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	ImpranFLEX	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Luxembourg	Intervet International B.V.	Porcilis PRRS	Live	10 ^{4.0} -10 ^{6.3}	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35		attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN		PRRS virus,		suspension for		Intradermal use
	The Netherlands		strain DV		injection		
Luxembourg	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Luxembourg	Boehringer Ingelheim	Ingelvac PRRS Modified	Live	min. 10 ^{4.9}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	Live Virus	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain VR		injection		
	Germany		2332				
Luxembourg	CEVA-Phylaxia Veterinary	Persovac	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Biologicals Co. Ltd.		virus, strain	CCID ₅₀	solvent for		use
	Szállás Utca 5		P120		suspension for		
	1107 Budapest				injection		
	Hungary						

Malta	Intervet Ireland ltd., Magna	Porcilis PRRS	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Drive, Magna Business Park	lyophilisate and solvent	attenuated	TCID ₅₀	solvent for		use
	City, Dublin 24,	for suspension for	PRRS virus,		suspension for		Intradermal use
	Ireland	injection for pigs	strain DV		injection		
Malta	Laboratorios Hipra, S.A.	Unistrain PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135		attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)		PRRS virus,		suspension for		Intradermal use
	Spain		strain VP-046		injection		
			BIS				
Poland	Laboratorios Hipra, S.A.	Unistrain PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135		attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)		PRRS virus,		suspension for		Intradermal use
	Spain		strain VP-046		injection		
			BIS				
Poland	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Poland	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Poland	Ceva Animal Health Polska	Persovac	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Sp. z o.o.		virus, strain	CCID ₅₀	solvent for		use
	ul. Okrzei 1A		P120		suspension for		
	03-715 Warsaw				injection		
	Poland						

Poland	Boehringer Ingelheim	Ingelvac PRRS MLV	Live	min. 10 ^{4.9}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain VR		injection		
	Germany		2332				
Portugal	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizado e solvente	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	para suspensão injetável	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	para suínos	strain 94881		injection		
	Germany		(genotype 1)				
Portugal	Boehringer Ingelheim	Ingelvac PRRS MLV	Live	min. 10 ^{4.9}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizado e solvente	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	para suspensão injetável	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	para suínos	strain VR		injection		
	Germany		2332				
Portugal	Ceva Saúde Animal -	Persovac liofilizado e	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Produtos Farmacêuticos e	solvente para suspensão	virus, strain	CCID ₅₀	solvent for		use
	Imunológicos, Lda.	injetável para suínos	P120		suspension for		
	Rua Doutor António Loureiro				injection		
	Borges, 9/9A, 9ºA						
	Miraflores- 1495-131 Algés						
	Portugal						
Portugal	MSD Animal Health Lda.	Porcilis PRRS liofilizado e	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Edifício Vasco da Gama, n.º	solvente para suspensão	attenuated	TCID ₅₀	solvent for		use
	19	injetável para suínos	PRRS virus,		suspension for		Intradermal use
	Quinta da Fonte, Porto Salvo		strain DV		injection		
	2770 192 Paço de Arcos						
	Portugal						

Portugal	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizado e solvente	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	para suspensão injetável	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	para suínos	strain 94881		injection		
	Germany		(genotype 1)				
Portugal	Laboratorios Hipra, S.A.	UNISTRAIN PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	liofilizado e solvente	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	para suspensão injetável	PRRS virus,		suspension for		Intradermal use
	Spain	para suínos	strain VP-046		injection		
			BIS				
Romania	Intervet International B.V.	Porcilis PRRS	Live	10 ^{4.0} -10 ^{6.3}	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35		attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN		PRRS virus,		suspension for		
	The Netherlands		strain DV		injection		
Romania	Laboratorios Hipra, S.A.	Unistrain PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135		attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)		PRRS virus,		suspension for		Intradermal use
	Spain		strain VP-046		injection		
			BIS				
Romania	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				
Romania	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain 94881		injection		
	Germany		(genotype 1)				

Slovenia	CEVA-Phylaxia Veterinary	Persovac liofilizat in	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Biologicals Co. Ltd.	vehikel za suspenzijo za	virus, strain	CCID ₅₀	solvent for		use
	Szállás Utca 5	injiciranje za prašiče	P120		suspension for		
	1107 Budapest				injection		
	Hungary						
Slovenia	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizat in vehikel za	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	suspenzijo za injiciranje	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	za prašiče	strain 94881		injection		
	Germany		(genotype 1)				
Slovenia	Laboratorios Hipra, S.A.	Unistrain PRRS liofilizat	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	in vehikel za suspenzijo	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	za injiciranje za prašiče	PRRS virus,		suspension for		Intradermal use
	Spain		strain VP-046		injection		
			BIS				
Slovenia	Intervet International B.V.	Porcilis PRRS liofilizat in	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35	topilo za raztopino za	attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN	injiciranje za prašiče	PRRS virus,		suspension for		Intradermal use
	The Netherlands		strain DV		injection		
Slovenia	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizat in vehikel za	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	suspenzijo za injiciranje	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	za prašiče	strain 94881		injection		
	Germany		(genotype 1)				
Slovak Republic	Boehringer Ingelheim	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	lyofilizát a rozpúšťadlo	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	na injekčnú suspenziu	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	pre ošípané	strain 94881		injection		
	Germany		(genotype 1)				

Slovak Republic	Intervet International B.V.	Porcilis PRRS lyofilizát	Live	10 ^{4.0} -10 ^{6.3}	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35	a rozpúšťadlo na	attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN	injekčnú suspenziu pre	PRRS virus,		suspension for		Intradermal use
	The Netherlands	ošípané	strain DV		injection		
Slovak Republic	Boehringer Ingelheim	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	lyofilizát a rozpúšťadlo	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	na injekčnú suspenziu	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	pre ošípané	strain 94881		injection		
	Germany		(genotype 1)				
Slovak Republic	Laboratorios Hipra, S.A.	Unistrain PRRS lyofilizát	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	a rozpúšťadlo na	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	injekčnú suspenziu pre	PRRS virus,		suspension for		Intradermal use
	Spain	ošípané	strain VP-046		injection		
			BIS				
Spain	Merck Sharp & Dohme	Porcilis PRRS, liofilizado	Live	10 ^{4.0} -10 ^{6.3}	Lyophilisate and	Pigs	Intramuscular
	Animal Health, S.L.	y disolvente para	attenuated	TCID ₅₀	solvent for		use
	Polígono Industrial El	suspensión inyectable	PRRS virus,		suspension for		Intradermal use
	Montalvo I	para porcino	strain DV		injection		
	C/ Zeppelin, nº 6, parcela 38						
	37008 Carbajosa de la						
	Sagrada						
	Salamanca						
	Spain						
Spain	Laboratorios Hipra, S.A.	Unistrain PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	liofilizado y disolvente	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	para suspensión	PRRS virus,		suspension for		Intradermal use
	Spain	inyectable para porcino.	strain VP-046		injection		
			BIS				

Spain	Boehringer Ingelheim	Ingelvac PRRSFLEX EU,	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizado y disolvente	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	para suspensión	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	inyectable para porcino	strain 94881		injection		
	Germany		(genotype 1)				
Spain	Boehringer Ingelheim	ReproCyc PRRS EU,	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	liofilizado y disolvente	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	para suspensión	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	inyectable para porcino	strain 94881		injection		
	Germany		(genotype 1)				
Spain	Ceva Salud Animal, S.A.	Persovac liofilizado y	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
	Avenida Diagonal 609-615	disolvente para	virus, strain	CCID ₅₀	solvent for		use
	08028 Barcelona	suspensión inyectable	P120		suspension for		
	Spain	para porcino			injection		
Spain	Boehringer Ingelheim	Ingelvac PRRS MLV	Live	min. 10 ^{4.9}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain VR		injection		
	Germany		2332				
Spain	Laboratorios Syva, S.A.U.,	Pyrsvac-183	Live	min. 10 ⁵	Lyophilisate and	Pigs	Intramuscular
	Avda. Parroco Pablo Diez,		attenuated	CCID ₅₀	solvent for		use
	49-57, San Andres Del		PRRS virus,		suspension for		
	Rabanedo, 24010 Leon,		strain ALL		injection		
	Spain		183				
Spain	Laboratorios Hipra, S.A.	Amervac PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135		attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)		PRRS virus,		suspension for		
	Spain		strain VP-046		injection		
			BIS				

The Netherlands	Boehringer Ingelheim	ReproCyc PRRS EU,	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	lyofilisaat en	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	suspendeervloeistof	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	voor suspensie voor	strain 94881		injection		
	Germany	injectie voor varkens	(genotype 1)				
The Netherlands	Boehringer Ingelheim	Ingelvac PRRS MLV	Live	min. 10 ^{4.9}	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH		attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173		PRRS virus,		suspension for		
	55216 Ingelheim am Rhein		strain VR		injection		
	Germany		2332				
The Netherlands	Kernfarm B.V.	Ingelvac PRRSFLEX EU,	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	De Corridor 14 d Breukelen	Lyofilisaat en	attenuated	TCID ₅₀	solvent for		use
	3621 ZB	suspendeervloeistof	PRRS virus,		suspension for		
	The Netherlands	voor suspensie voor	strain 94881		injection		
		injectie voor varkens	(genotype 1)				
The Netherlands	Boehringer Ingelheim	Ingelvac PRRSFLEX EU,	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
	Vetmedica GmbH	lyofilisaat en	attenuated	TCID ₅₀	solvent for		use
	Binger Straße 173	suspendeervloeistof	PRRS virus,		suspension for		
	55216 Ingelheim am Rhein	voor suspensie voor	strain 94881		injection		
	Germany	injectie voor varkens	(genotype 1)				
The Netherlands	Intervet International B.V.	Porcilis PRRS	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	Wim de Körverstraat 35		attenuated	TCID ₅₀	solvent for		use
	Boxmeer 5831 AN		PRRS virus,		suspension for		Intradermal use
	The Netherlands		strain DV		injection		
The Netherlands	Kernfarm B.V.	Porcilis PRRS	Live	104.0-106.3	Lyophilisate and	Pigs	Intramuscular
	De Corridor 14D		attenuated	TCID ₅₀	solvent for		use
	Breukelen 3621 ZB		PRRS virus,		suspension for		Intradermal use
	The Netherlands		strain DV		injection		

The Netherlands	Laboratorios Hipra, S.A.	Unistrain PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
	Avda. la Selva, 135	lyofilisaat en	attenuated	CCID ₅₀	solvent for		use
	17170 Amer (Girona)	suspendeervloeistof	PRRS virus,		suspension for		Intradermal use
	Spain	voor suspensie voor	strain VP-046		injection		
		injectie bij varkens	BIS				
United Kingdom	Boehringer Ingelheim Animal	Ingelvac PRRSFLEX EU	Live	104.4-106.6	Lyophilisate and	Pigs	Intramuscular
(Northern	Health UK Ltd	Lyophilisate and Solvent	attenuated	TCID ₅₀	solvent for		use
Ireland) ³	Ellesfield Avenue	for Suspension for	PRRS virus,		suspension for		
	Bracknell RG12 8YS	Injection for Pigs	strain 94881		injection		
	United Kingdom		(genotype 1)				
United Kingdom	Ceva Animal Health Ltd	Persovac lyophilisate	Live PRRS	104.0-107.3	Lyophilisate and	Pigs	Intramuscular
(Northern	Unit 3, Anglo Office Park	and solvent for	virus, strain	CCID ₅₀	solvent for		use
Ireland)	White Lion Road	suspension for injection	P120		suspension for		
	Amersham HP7 9FB	for pigs			injection		
	United Kingdom						
United Kingdom	Intervet UK Ltd	Porcilis PRRS	Live	10 ^{4.0} -10 ^{6.3}	Lyophilisate and	Pigs	Intramuscular
(Northern	Walton Manor	Lyophilisate and Solvent	attenuated	TCID ₅₀	solvent for		use
Ireland)	Walton	for Suspension for	PRRS virus,		suspension for		Intradermal use
	Milton Keynes MK7 7AJ	Injection for Pigs	strain DV		injection		
	United Kingdom						
United Kingdom	Boehringer Ingelheim Animal	ReproCyc PRRS EU	Live	10 ^{3.9} -10 ^{7.0}	Lyophilisate and	Pigs	Intramuscular
(Northern	Health UK Ltd	Lyophilisate and Solvent	attenuated	TCID ₅₀	solvent for		use
Ireland)	Ellesfield Avenue	for Suspension for	PRRS virus,		suspension for		
	Bracknell RG12 8YS	Injection for Pigs	strain 94881		injection		
	United Kingdom		(genotype 1)				
United Kingdom	Laboratorios Hipra, S.A.	Unistrain PRRS	Live	10 ^{3.5} -10 ^{5.5}	Lyophilisate and	Pigs	Intramuscular
(Northern	Avda. la Selva, 135	Lyophilisate and Solvent	attenuated	CCID ₅₀	solvent for		use
Ireland)	17170 Amer (Girona)	for Suspension for	PRRS virus,		suspension for		Intradermal use
	Spain	Injection for Pigs	strain VP-046		injection		
			BIS				

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³ For the United Kingdom, as from 1 January 2021, EU Law applies only to the territory of Northern Ireland (NI) to the extent foreseen in the Protocol on Ireland/NI.

Annex II

Scientific conclusions and grounds for amendment of the summary of product characteristics

Overall summary of the scientific evaluation of modified live porcine respiratory and reproductive syndrome (PRRS) virus vaccines (see Annex I)

1. Introduction

Modified live porcine respiratory and reproductive syndrome virus vaccines, or PRRS MLV, are widely used to reduce the clinical impact of the disease, reduce viraemia and virus transmission in vaccinated populations. The disease in gilts/sows may result in lowered farrowing (birth) rates, increase in abortions, stillborn, mummified as well as weak live born piglets and deaths, whilst the respiratory disease in suckling and weaned pigs can lead to high mortality rates. Live vaccines contain strains of live PRRS virus, which have been weakened so that they do not cause disease but shedding of the vaccine strain may occur for a variable period of time after vaccination, depending on the vaccine strain. Traditionally, two genotypes of the PRRS virus, PRRSV-1 (or European type) and PRRSV-2 (or American type) have been distinguished, with a high genetic variability between them and within each type.

In July 2019, PRRS virus type 1 was detected in samples collected as part of the routine PRRSV surveillance in a PRRSV-negative boar station in Denmark. PRRSV infections and PRRS viruses were subsequently detected and isolated in approximately 40 herds that had received semen from the boar station. The clinical signs observed in the herds included reproductive failures, piglet mortality up to 60% and in some cases sow mortality. A full genome sequencing of the virus, collected from the boar station and named 'Horsens virus strain', was performed⁴ and analysed⁵.

The phylogenetic analysis carried out by Kvisgaard *et al.* (2020)² reported that this virus was significantly different from all known Danish PRRS viruses and furthermore, that it was a recombinant. A recombination analysis was performed which concluded that the strain was a recombination between the strain VP-046 BIS included in the vaccine Unistrain PRRS (authorised via decentralised procedure IE/V/0287/001/DC; marketing authorisation holder: Laboratorios HIPRA) and the strain 96V198 included in the vaccine Suvaxyn PRRS MLV (authorised via centralised procedure EU/2/17/215/001–003; marketing authorisation holder: Zoetis Belgium SA). It was hypothesised that the recombinant strain originated in and spread to the boar station from a neighbouring herd which had a vaccination history with both Unistrain PRRS and Suvaxyn PRRS MLV vaccines and in which the 'Horsens virus strain' was detected.

Based on these findings, the Danish Veterinary and Food Administration suspended the use of the vaccine Suvaxyn PRRS MLV in Denmark on 5 November 2019, "based on the precautionary principle, aiming to protect animal health and prevent new virus variants from occurring in the future". On 6 November 2019, in accordance with Article 45(4) of Regulation (EC) No. 726/2004, Denmark notified the European Commission and the European Medicines Agency of the suspension of the use of the product Suvaxyn PRRS MLV. Therefore, on 7 November 2019, the European Commission initiated a procedure under Article 45 of Regulation (EC) No. 726/2004 and requested the CVMP to assess the above concerns and their impact on the benefit-risk balance for Suvaxyn PRRS MLV.

Following a review of the available data, the CVMP adopted an opinion on 18 June 2020⁶ and concluded that there was no product-specific concern identified for Suvaxyn PRRS MLV that would make the

⁴ Porcine reproductive and respiratory syndrome virus isolate DK-2019-10166-107, complete genome (GenBank: MN603982.1) – https://www.ncbi.nlm.nih.gov/nuccore/MN603982

Kvisgaard LK, Kristensen CS, Ryt-Hansen P, et al. A recombination between two Type 1 Porcine Reproductive and Respiratory Syndrome Virus (PRRSV-1) vaccine strains has caused severe outbreaks in Danish pigs. *Transbound Emerg Dis.* 2020; 00:1–11. https://doi.org/10.1111/tbed.13555

 $^{^{6}}$ CVMP Scientific conclusions and grounds for amendment of the summary of product characteristics and package leaflet of Suvaxyn PRRS MLV – \underline{link}

product different from other authorised modified live PRRS virus vaccines in terms of potential for recombination. Furthermore, the CVMP opinion states that:

"Genetic recombination of PRRS viruses cannot be excluded and may therefore occur under field conditions. It is generally acknowledged that such recombination can occur between PRRSV field strains including PRRS MLV strains. This has been known for decades and is well described in scientific literature."

"Thus, the well-known general possibility of recombination of PRRSV field strains and PRRS MLV strains and the potential implications of such recombination events should be considered when using modified live PRRS vaccines. In addition, the opportunity for PRRS viruses to circulate and disseminate should be limited by specific precautionary measures (e.g. vaccination, use of vaccines under specific rules, biosafety/biosecurity measures). However, these precautions are relevant not only for Suvaxyn PRRS MLV but also for all modified live PRRS vaccines authorised in the EU."

The Committee concluded that overall, the benefit-risk balance for Suvaxyn PRRS MLV is positive, subject to changes in the product information. Several warnings were included in the product information for Suvaxyn PRRS MLV, aimed at limiting the opportunity for the modified live PRRS virus to circulate and at reducing the risk and frequency of recombination between PRRS viruses, including PRRS vaccine strains. In this respect, the CVMP opinion states that:

"In addition, the Committee recognised that such warning sentences would also be applicable to other PRRS MLV vaccines authorised in the EU and further considerations on this matter should be given at a future date."

In view of the concerns above and in line with the aforementioned considerations from the CVMP opinion, the European Commission considered that the marketing authorisations and product information of all modified live PRRS virus vaccines authorised in the EU should be reviewed to ensure protecting animal health and limiting the risk of recombination between PRRS viruses, including PRRS vaccine strains.

2. Discussion of data available

The concerned MAHs provided pharmacovigilance data, studies on vaccine virus shedding and spreading, scientific literature as well as proposals for risk mitigation measures in response to the questions raised by the CVMP.

Recombination events involving PRRS vaccine strains and field strains or between modified live vaccine strains of PRRSV

In general, homologous recombination is a process by which related segments of genetic material (RNA or DNA) may be exchanged between related organisms. This process occurs naturally in essentially all micro-organisms and is believed to be important for the evolution of species. Recombination enables different beneficial mutations in separate genomes to be combined into a single genome, resulting in an organism that shows advantages over its predecessors in terms of an increased "fitness" (e.g. replication, survival).

PRRS viruses are small, enveloped RNA viruses and belong to the genus Arterivirus (family Arteriviridae, order Nidovirales). They are subdivided in two major types, PRRSV-1 (European) and PRRSV-2 (North American). Due to the nature of PRRSV, genetic recombination cannot be excluded and will occur under field conditions within each type; however, no cases of a recombination between PRRSV-1 and PRRSV-2 have been reported so far. Evidence that homologous recombination events occur at high frequency in PRRS viruses has been widely available for decades and is well described in

scientific literature. Such events include recombination between PRRSV field strains, but also recombination involving modified live vaccine strains of PRRSV vaccines.

Despite the potential for recombination of PRRS field viruses and the extensive use of PRRS MLV vaccines worldwide, clear evidence of recombination between vaccine and wild type strains has hardly been reported both in scientific literature and in pharmacovigilance. The MAHs provided and analysed published literature and papers dated between 1992 and 2020, as well as own pharmacovigilance data. In general, all these papers are of the same tenor and conclude that there is an intrinsic potential for recombination and re-assortment in either PRRSV field strains or modified live PRRS vaccine strains. It is supposed that a recombinant virus emerged in a farm by recombination may also be transmitted to other farms. However, no cases were presented where such a recombinant is much more virulent than the original/parent viruses. While the recombinant virus gained some *in vivo* replication fitness, its pathogenicity or virulence did not seem to increase unambiguously even if significant clinical signs were observed in the reported cases.

Based on the data provided and taking into account the high numbers of vaccine doses administered (hundreds of millions) and the very limited number of recombination events reported in the scientific literature and through pharmacovigilance, the CVMP concluded that the risk associated with recombination of a PRRS MLV vaccine strain with a PRRS field virus or between two PRRS MLV vaccine strains, and any potential adverse events resulting from it, is low.

Recombination events of a PRRS MLV vaccine strain with a PRRS field virus or between two PRRS MLV vaccine strains can only occur in the presence of both viruses on the same farm at the same time. As live PRRS vaccine viruses behave similarly to PRRS field viruses and replicate in pigs, the potential to recombine is considered an unavoidable possibility in case of a co-infection with another PRRSV in e.g. vaccinated pigs. If such a recombination event would occur, no general prediction regarding the emergence of virulence and possible effects of the resulting recombinant PRRS virus can be made. It is generally considered that the virulence of any new recombinant virus will possibly not exceed that of the parental PRRS field virus involved.

The circulation of PRRS viruses either from vaccine or field origin is considered to increase the likelihood of recombination and possible return to virulence. Therefore, as a matter of principle, the opportunity for PRRS viruses to circulate and disseminate should be limited by specific precautionary measures such as vaccination under predefined requirements or biosafety/biosecurity measures. The Committee concluded that such precautions would be relevant for all modified live PRRSV vaccines authorised in the EU. To this end, the Committee convened an *ad hoc* expert group in order to provide expert advice on the development of recommendations on the correct and proper use of PRRS MLV vaccines aiming to limit the opportunity for PRRS viruses to circulate and to reduce the risk and the frequency of recombination between PRRS viruses including PRRS vaccine strains and the potential adverse events.

The expert group confirmed that despite the well-known general possibility of recombination of PRRSV field strains and PRRS MLV vaccine strains, modified live PRRSV vaccines continue to be an appropriate tool for the management of PRRSV infection/disease in Europe.

In terms of the identification of a potential recombination event with a live vaccine in the field and its subsequent reporting, the expert group considered that no specific clinical signs are anticipated which could indicate a recombinant virus and therefore a thorough diagnostic follow-up is recommended. Additionally, since the recombination between two closely related PRRS virus strains might be difficult to identify, the sequencing of the whole genome of the supposed recombinant with a next generation sequencing device associated with the interpretation of the raw data with several different algorithms was advised. Relevant and suitable samples should be taken from different animals of the affected age

group. Furthermore, the expert group advised that the virulence of recombinant strains can only be assessed reliably using experimental infections in pigs, including proper control animals.

Vaccine virus shedding and spreading

With a view to reducing the risk of recombination events due to the circulation of PRRS vaccine viruses, as well as the definition of a transition period for transitioning from one PPRS MLV vaccine to another within a farm, the MAHs provided summary reports of studies on duration of vaccine virus shedding and excretion and results, if available, concerning vaccine virus loads in excretions (e.g. in tissues, blood and semen) after vaccination.

CVMP noted that the study designs noticeably differed in terms of the observation period of shedding after vaccination (timeframe: 3 to 12 weeks), possibly because the vaccines are intended for different target animal category (e.g. pigs for fattening, pigs including pregnant and/or lactating sows). A further important difference was the type of samples collected (e.g. blood, faecal, nasal and oral swabs, milk, colostrum, etc.). Not all detection methods included the limit of detection. In some cases, only viremia was evaluated in vaccinated animals. Furthermore, regarding spreading, the studies did not always include in-contact or sentinel animals. Therefore, the CVMP considered that it would be desirable to provide in the future clearer guidance to applicants on the study design evaluating shedding and spreading of PRRS MLV vaccines enabling a proper risk assessment in the context of the risk of recombination events and the definition of a transition period for the switching from one vaccine to another at the same farm.

With regard to the products included in the scope of this referral procedure, the CVMP concluded that the information concerning the time period of shedding and spreading of the vaccine virus after vaccination is highly important and should be maintained or added, if not already included, in the product information.

Proposed risk mitigation measures

The MAHs proposed modifications to the product information to clarify in more detail those situations where recombination of the vaccine virus with PRRSV field or other vaccine strains could happen. The proposed changes were noted and considered generally adequate for the use of PRRS MLV vaccines as they were based mainly on the CVMP conclusions in procedure EMEA/V/A/139 under Article 45 of Regulation (EC) No. 726/2004 for Suvaxyn PRRS MLV⁶.

The expert group also generally supported the proposed warnings to be included in the product information but suggested some amendments. In particular, the expert group proposed to state that "vaccination should be performed preferably in a separated quarantine unit and a transition period should be respected". This transition period should be based on the time period of shedding and spreading of the vaccine virus after vaccination for each product. However, the expert group advised that the warning recommended in the procedure under Article 45 of Regulation (EC) No. 726/2004 for Suvaxyn PRRS MLV⁶ "It is advised to vaccinate all target pigs within a herd from the earliest recommended age onwards" was not appropriate and should be deleted. Furthermore, the term "mass vaccination" was suggested to be deleted as it was considered unclear. An alternative sentence (e.g. "Vaccination should aim to achieve a homogenous immunity in the target population") was suggested. No further additional warnings or amendments to the product information were proposed by the expert group.

The expert group highlighted that the implementation of external and internal biosecurity measures as strict as possible is recommended to decrease the transmission of PRRS field viruses and PRRS MLV vaccine strains between and within farms, with a reference to current literature and handbooks. As such measures are not directly related to the use of vaccines, the CVMP considered that a general guidance document on the appropriate use of PRRS modified live vaccines together with further

information on other measures to reduce circulation of different PRRSV field strains and PRRS vaccines strains would be beneficial. The expert group supported this proposal and advised that such general guidance should be provided to the herd veterinarian and the farmer, preferably electronically. The CVMP will liaise with relevant bodies and organisations in the future to initiate the drafting of this guidance.

3. Benefit-risk assessment

Introduction

The referral was initiated in order to review all available data for modified live PRRS virus vaccines and consider what risk management measures are appropriate and feasible for the products under consideration (e.g. changes to product information) that could protect animal health and limit the risk of recombination between PRRS viruses, including PRRS vaccine strains.

Benefit assessment

The efficacy of the concerned PRRSV vaccines has not been evaluated in terms of direct therapeutic or additional benefits in this referral procedure.

Risk assessment

Quality, target animal safety, user and consumer safety as well as the environmental risk for the concerned veterinary medicinal products have not been assessed in this referral procedure and remain unaffected in the light of the referral.

Specific potential risks, according to product type and application:

Unintended spread of vaccine strains can occur because the vaccines contain live attenuated virus and live organisms can be introduced into the environment.

Reversion to virulence cannot be ruled out because the vaccines contain live attenuated virus, which has replicative or integrative potential. However, corresponding safety studies and the absence of reliable pharmacovigilance data have given no indication that the vaccine virus reverted to virulence.

As the vaccine strains are able to replicate in vaccinated pigs, they have the potential to recombine with field strains or other vaccine strains that may be concurrently replicating in the same pig. Genetic recombination of PRRS viruses including PRRS MLV vaccine strains is a natural process and cannot be excluded. This feature is generally acknowledged and known for decades and is well described in scientific literature. It is assumed that possible risks related to genetic recombination have been addressed and assessed in the initial marketing authorisation procedures of the concerned veterinary medicinal products as well as in follow-up procedures.

Risk management or mitigation measures

The addition of further information in the product information in order to limit the opportunity for PRRS MLV vaccine strains to circulate and to reduce the risk and the frequency of recombination between PRRS viruses including PRRS vaccine strains was deemed necessary in the context of this referral procedure (see Annex III).

Evaluation and conclusions on the benefit-risk balance

The potential of PRRS MLV vaccine strains to recombine either with PRRSV field strains and/or with other PRRSV vaccine strains is not new. It is a natural feature of PRRS viruses, including all PRRS modified live virus vaccines authorised in the EU. Notwithstanding, PRRS modified live vaccines

continue to be considered an appropriate tool for the management of PRRSV infection/disease in Europe.

Provided additional warnings to limit the opportunity for PRRS MLV viruses to circulate and to reduce the risk and the frequency of recombination between PRRS viruses including PRRS vaccine strains are included in the product information, the benefit-risk balance for modified live porcine respiratory and reproductive syndrome virus vaccines remains positive.

Grounds for amendment of the summary of product characteristics and package leaflet

Whereas

- based on the data provided, the CVMP concluded that the risk associated with recombination of a PRRS MLV vaccine strain with a PRRS field virus or between two PRRS MLV vaccine strains, and any potential adverse events resulting from it, is low;
- the opportunity for PRRS MLV vaccine strains to circulate should be further limited in order to further reduce the risk and the frequency of recombination between PRRS viruses including PRRS vaccine strains;
- the CVMP considered that the overall benefit-risk balance for the concerned products remains positive subject to amendments in the product information;

the CVMP has recommended the amendment of the marketing authorisations for modified live porcine respiratory and reproductive syndrome (PRRS) virus vaccines as referred in Annex I for which the summary of product characteristics and package leaflet are set out in Annex III.

Annex III

Amendments in the relevant sections of the Summary of product characteristics and package leaflet

Summary of product characteristics

4.5 Special precautions for use

Special precautions for use in animals

...

For PRRS MLV vaccines authorised for use in breeding animals:

PRRS virus-naïve breeding animals (e.g. replacement gilts from PRRS virus-negative herds) which are introduced into a PRRSV-infected herd should be vaccinated prior to first insemination. Vaccination should preferably be done in a separated quarantine unit. A transition period should be respected between vaccination and moving the animals to the breeding unit. This transition period should be longer than the shedding phase of the PRRS MLV vaccine following vaccination.

For all PRRS MLV vaccines irrespective of the target animal category:

Do not routinely rotate two or more commercial PRRS MLV vaccines based on different strains in a herd.

In order to limit the potential risk of recombination between PRRS MLV vaccine strains of the same genotype, do not use different PRRS MLV vaccines based on different strains of the same genotype on the same farm at the same time. In the case of transitioning from one PRRS MLV vaccine to another PRRS MLV vaccine, a transition period should be respected between the last administration of the current vaccine and the first administration of the new vaccine. This transition period should be longer than the shedding period of the current vaccine following vaccination.

...

Add, where applicable, information concerning the time period of shedding and spreading of the vaccine virus after vaccination.

4.5 Special precautions for use *OR* 4.9 Amounts to be administered and administration route

Delete, where applicable, any reference to "mass vaccination" or any similar wording like for example "all animals in a herd should be vaccinated" or "vaccination of the entire existing herd is recommended". Furthermore, delete, where applicable, the statement "It is advised to vaccinate all target pigs within a herd from the earliest recommended age onwards.".

The following wording could be added in section 4.5 instead: "Vaccination should aim to achieve a homogenous immunity in the target population at farm level.".

Package leaflet

12. SPECIAL WARNING(S)

Special precautions for use in animals

...

For PRRS MLV vaccines authorised for use in breeding animals:

PRRS virus-naïve breeding animals (e.g. replacement gilts from PRRS virus-negative herds) which are introduced into a PRRSV-infected herd should be vaccinated prior to first insemination. Vaccination should preferably be done in a separated quarantine unit. A transition period should be respected between vaccination and moving the animals to the breeding unit. This transition period should be longer than the shedding phase of the PRRS MLV vaccine following vaccination.

For all PRRS MLV vaccines irrespective of the target animal category:

Do not routinely rotate two or more commercial PRRS MLV vaccines based on different strains in a herd.

In order to limit the potential risk of recombination between PRRS MLV vaccine strains of the same genotype, do not use different PRRS MLV vaccines based on different strains of the same genotype on the same farm at the same time. In the case of transitioning from one PRRS MLV vaccine to another PRRS MLV vaccine, a transition period should be respected between the last administration of the current vaccine and the first administration of the new vaccine. This transition period should be longer than the shedding period of the current vaccine following vaccination.

...

Add, where applicable, information concerning the time period of shedding and spreading of the vaccine virus after vaccination.

12 SPECIAL WARNING(S) OR 8 DOSAGE FOR EACH SPECIES, ROUTE(S) AND METHOD OF ADMINISTRATION

Delete, where applicable, any reference to "mass vaccination" or any similar wording like for example "all animals in a herd should be vaccinated" or "vaccination of the entire existing herd is recommended". Furthermore, delete, where applicable, the statement "It is advised to vaccinate all target pigs within a herd from the earliest recommended age onwards.".

The following wording could be added in section 12 instead: "Vaccination should aim to achieve a homogenous immunity in the target population at farm level.".