

1 **Supplementary Table S2.** Analytical sensitivity and specificity of different extraction
 2 methods combined with specific molecular detection methods.

		MagNA Pure Roche	NucliSENS EasyMAG bioMerieux	QIAamp Viral RNA Mini Kit Qiagen	Qia-symphony Qiagen	EZ1 Virus Mini Kit Qiagen	Manual extraction -	NucleoSpin RNA Virus Macherey-Nagel	RTP Pathogen kit Stratec	iPrep PureLink Virus Kit Thermo Fisher Scientific	magLEAD 6gC kit magDEA Dx SV PSS	MinElute Virus Spin Mini Kit Qiagen	
Sensitivity*	Altona Balm 2012	100 (2)	58 (2)	92 (3)	100 (1)								
	Clonit Corman 2016	94 (3)		100 (1)		100 (2)							
	Fast track diagnostics Faye 2008												
	Faye 2013	89 (3)	50 (2)	88 (4)		50 (1)							
	Genesig Lanciotti 2008	100 (3)	100 (1)	83 (5)	83 (1)		83 (1)	100 (1)	67 (1)				
	Liferiver Moureau 2007			67 (1)									
	own design Patel 2013	83 (1)		79 (4)		100 (1)				100 (1)	100 (2)		
	Pyke 2014			67 (1)			83 (1)						
	Roche Sacace Biotechnologies												
	Scaramozzino 2001	83 (1)		67 (1)	67 (1)								
	Tappe 2014												
	US CDC-Trioplex			83 (1)					83 (1)			50 (1)	
	Specificity*	Altona Balm 2012	83 (2)	100 (2)	97 (3)	100 (1)							
		Clonit Corman 2016	100 (3)		100 (1)		100 (2)						
		Fast track diagnostics Faye 2008											
		Faye 2013	100 (3)	100 (2)	96 (4)		100 (1)						
Genesig Lanciotti 2008		94 (3)	100 (1)	97 (5)	100 (1)		83 (1)	100 (1)	100 (1)				
Liferiver Moureau 2007				100 (1)									
own design Patel 2013		100 (1)		92 (4)		100 (1)			83 (1)	96 (2)			
Pyke 2014				100 (1)									
Roche Sacace Biotechnologies													
Scaramozzino 2001		100 (1)		100 (1)	100 (1)								
Tappe 2014													
US CDC-Trioplex				100 (1)					83 (1)			100 (1)	

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 4 The colour range indicates the percentages of sensitivity and specificity, with white being 100% and dark
 5 red 0%. Total number of submissions per test-method combination is given in parenthesis (n) to provide
 6 context for interpretation. For 30 tests the extraction method was not indicated with result submission. Of

- 7 note, information to distinguish MPLC and MP96 extraction systems when analysing MagNA Pure
- 8 extraction method was not provided.