



PathoSense

Infrastructure

Required spaces

☐

Extraction room

☐

Mastermix room (DNA/RNA free)

☐

RNA/DNA room (samples)

☐

Sequencing room



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Equipment

	Required equipment	Reference	Supplier
☐	Laminar flow (sample treatment)	-	Own preference
☐	-70°C freezer (samples)	-	Own preference
☐	-20°C freezer (enzymes)	-	Own preference
☐	4°C fridge	-	Own preference
☐	Heat block	-	Own preference
☐	Vortex	-	Own preference
☐	Microcentrifuge 1,5 mL	-	Own preference
☐	Mini Fuge Spincentrifuge	-	Own preference
☐	Thermal cycler	-	Own preference
☐	DynaMag™-2 Magnet	12321D	Life Technologies
☐	MinION (or GridION)	MinION	ONT



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Products (1/2)

	Products	Reference	Supplier
☐	20x Homemade buffer (HMB)	-	PathoSense
☐	Internal control	-	PathoSense
☐	10 nM EDTA	-	PathoSense
☐	Primer 1	-	PathoSense
☐	Primer 2	-	PathoSense
☐	Primer 3	-	PathoSense
☐	Primer 4	-	PathoSense
☐	Quick DNA/RNA viral kit (200)	D7021	Baseclear - Zymo
☐	Deoxynucleotides (dNTP) Solution Mix (8μmol) ; 5/pack	N0447S	Bioké - NEB
☐	Absolute Ethanol; molecular biology grade (4 L)	BP2818-4	Chemlab



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Products (2/2)

	Products	Reference	Supplier
☐	CleanNGS 50 ml (or 500 mL)	CNGS-0050	GC Biotech
☐	UltraPure Distilled Water DNase/RNase Free (10 x 500 ml)	10977-049	Life Technologies
☐	Superscript™ IV Reverse Transcriptase 4 x 10,000 U (200U/μl)	18090200	Life Technologies
☐	Benzonase Nuclease >90% purity 10,000 units	70746-3	Merck Life Science BV
☐	β-Mercaptoethanol, Molecular Biology Grade	444203	Merck Life Science BV
☐	KAPA HiFi Hotstart ReadyMix 6,25 ml	7958935001	Roche



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Oxford Nanopore Technologies		PathoSense Partner Bundle	576 tests	ONT webshop
Products		Reference		Supplier
☐	ONT PathoSense bundle containing:			ONT
☐	R10 flowcell (48x)	FLO-MIN114		ONT
☐	Rapid Barcoding Kit 24 V14 (4x)	SQK-RBK114.24		ONT
☐	Rapid Adapter Auxiliary V14 (4x)	EXP-RAA114		ONT
☐	Flow Cell Priming Kit (4x)	EXP-FLP004		ONT



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Consumables

	Products	Reference	Supplier
☐	Filtertip 100-1000 µl	-	Own preference
☐	Filtertip 20-200 µl	-	Own preference
☐	Filtertip10-100 µl	-	Own preference
☐	Filtertip 2-20 µl	-	Own preference
☐	Filtertip 1-10 µl	-	Own preference
☐	0,2 ml thin-walled tubes with domed caps (natural)	AB0337	Life Technologies
☐	MicroAmp 8-tube strip with attached domed caps (125 strips)	A30589	Life Technologies
☐	SafeSeal micro tube 1,5 ml - PP 250 stk	72.706.600	Sarstedt/Own preference
☐	Microcentrifuge tubes 1,5 ml, DNA LoBind®	EPPE0030108.418	VWR
☐	Syringe filter Minisart NML - SFCA - 1.2 µm - Luer Lock (50)	512-3116	SARTORIUS PARTNER OFFER (ASK ROSALIE) OR VWR
☐	vivaclear mini clarifying filter 0.8 µm (100)	516-0156	VWR



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IT

	Required parts	Remarks
☐	Processor	Intel i7 or AMD Ryzen 9 series (or better) with at least 4 cores/8 threads
☐	Motherboard with M2 SSD drive	Minimum 1TB
☐	At least 32G memory	
☐	GPU	NVIDIA RTX 4070 or higher
☐	USB Type-C port	
☐	Ethernet connection	
☐	USB flash drive	12GB or above