

DATA SHEET

REAGENT Omicron (BA.1.1) - **infectious**

REPOSITORY REFERENCE 101054

LOT NUMBER 28032022

DESCRIPTION Omicron isolate grown in the Vero/hSLAM cell line. Originally isolated and passaged in the Vero/hSLAM cell line by UKHSA. Further propagated by NIBSC. Mycoplasma undetectable, sterility checked.

FFU/mL in VeroE6: 1.02 x 1e5

PROVIDED 0.5mL of clarified culture supernatant

SEQUENCE

Variations called by both lofreq and ivar (>1%). In blue are BA.1.1 characteristic mutations (<https://outbreak.info>). All mutations are present. Details about the sequencing protocol is available on request.

Position (NC_045512.2)	Ref	Alt	Proportion	Gene	Variation
241	C	T	0.9984	CHR_START-ORF1ab	n.241C>T
964	A	C	0.0103	ORF1ab	p.Glu233Asp
1944	G	T	0.0161	ORF1ab	p.Arg560Leu
2470	C	T	0.9992	ORF1ab	p.Ala735Ala
2832	A	G	0.9996	ORF1ab	p.Lys856Arg
3037	C	T	0.9985	ORF1ab	p.Phe924Phe
3073	T	C	0.0170	ORF1ab	p.Cys936Cys
5386	T	G	0.9992	ORF1ab	p.Ala1707Ala
6512	AGTT	A	0.9738	ORF1ab	p.Ser2083_Leu2084delinsIle
8393	G	A	0.9996	ORF1ab	p.Ala2710Thr
9502	C	T	0.0101	ORF1ab	p.Ala3079Ala
9850	T	G	0.2992	ORF1ab	p.Ser3195Arg
9852	A	C	0.3194	ORF1ab	p.Asp3196Ala
10029	C	T	0.9991	ORF1ab	p.Thr3255Ile
10449	C	A	0.9986	ORF1ab	p.Pro3395His
11282	AGTTTGCTCG	A	0.9306	ORF1ab	p.Leu3674_Gly3676del
11355	C	T	0.0225	ORF1ab	p.Ala3697Val
11414	C	T	0.0114	ORF1ab	p.Leu3717Phe
11522	T	G	0.1029	ORF1ab	p.Phe3753Val
11537	A	G	0.9995	ORF1ab	p.Ile3758Val
11743	G	A	0.1833	ORF1ab	p.Gln3826Gln
11750	C	T	0.1186	ORF1ab	p.Leu3829Phe
11751	T	A	0.0145	ORF1ab	p.Leu3829His
12747	C	T	0.0279	ORF1ab	p.Thr4161Ile
13195	T	C	0.9997	ORF1ab	p.Val4310Val

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13197	C	T	0.0369	ORF1ab	p.Thr4311Ile
14408	C	T	0.9993	ORF1ab	p.Pro4715Leu
14646	T	G	0.0293	ORF1ab	p.Thr4794Thr
15240	C	T	0.9888	ORF1ab	p.Asn4992Asn
18163	A	G	0.9108	ORF1ab	p.Ile5967Val
21077	C	T	0.0531	ORF1ab	p.Thr6938Ile
21762	C	T	0.9987	S	p.Ala67Val
21764	ATACATG	A	0.9930	S	p.His69_Val70del
21846	C	T	0.9993	S	p.Thr95Ile
21986	GGTGTTTATT	G	0.9644	S	p.Gly142_Tyr145delinsAsp
22193	AATT	A	0.8832	S	p.Asn211_Leu212delinsIle
22204	T	TGAGCCAGAA	0.7118	S	p.Arg214_Asp215insGluProGlu
22578	G	A	0.9994	S	p.Gly339Asp
22599	G	A	0.9994	S	p.Arg346Lys
22673	T	C	0.9995	S	p.Ser371Pro
22674	C	T	0.9994	S	p.Ser371Phe
22679	T	C	0.9996	S	p.Ser373Pro
22686	C	T	0.9990	S	p.Ser375Phe
22813	G	T	0.9994	S	p.Lys417Asn
22882	T	G	0.9998	S	p.Asn440Lys
22898	G	A	0.9993	S	p.Gly446Ser
22992	G	A	0.9992	S	p.Ser477Asn
22995	C	A	0.9991	S	p.Thr478Lys
23013	A	C	0.9994	S	p.Glu484Ala
23040	A	G	0.9995	S	p.Gln493Arg
23048	G	A	0.9986	S	p.Gly496Ser
23055	A	G	0.9996	S	p.Gln498Arg
23063	A	T	0.9994	S	p.Asn501Tyr
23075	T	C	0.9995	S	p.Tyr505His
23086	C	T	0.0109	S	p.Tyr508Tyr
23202	C	A	0.9993	S	p.Thr547Lys
23403	A	G	0.9996	S	p.Asp614Gly
23525	C	T	0.9993	S	p.His655Tyr
23557	C	T	0.0105	S	p.Pro665Pro
23599	T	G	0.9997	S	p.Asn679Lys
23604	C	A	0.9993	S	p.Pro681His
23854	C	A	0.9987	S	p.Asn764Lys
23948	G	T	0.9997	S	p.Asp796Tyr
24130	C	A	0.9986	S	p.Asn856Lys
24378	C	T	0.0101	S	p.Ser939Phe
24424	A	T	0.9992	S	p.Gln954His
24469	T	A	0.9985	S	p.Asn969Lys
24503	C	T	0.9965	S	p.Leu981Phe
25000	C	T	0.9994	S	p.Asp1146Asp
25584	C	T	0.9994	ORF3a	p.Thr64Thr
26270	C	T	0.9994	E	p.Thr9Ile
26530	A	G	0.9994	M	p.Asp3Gly

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26577	C	G	0.9995	M	p.Gln19Glu
26709	G	A	0.9986	M	p.Ala63Thr
27259	A	C	0.9986	ORF6	p.Arg20Arg
27807	C	T	0.9992	ORF7b	p.Leu18Leu
28271	A	T	0.9991	ORF8-N	n.28271A>T
28311	C	T	0.9992	N	p.Pro13Leu
28361	GGAGAACGCA	G	0.8581	N	p.Glu31_Ser33del
28501	C	A	0.0205	N	p.Thr76Thr
28881	G	A	0.9990	N	p.Arg203Lys
28882	G	A	0.9989	N	p.Arg203Arg
28883	G	C	0.9991	N	p.Gly204Arg
29253	C	T	0.9985	N	p.Ser327Leu

APPLICATIONS

Infectivity assay, viral growth, neutralisation assay.

DEPOSITOR

Original virus received from Dr Kevin Bewley, UK Health Security Agency, Medical Interventions Group, Porton Down, UK. Isolate further amplified and characterised by NIBSC.

ACKNOWLEDGMENTS

Acknowledgment for publications should read "The following reagent was obtained from the Centre For AIDS Reagents, NIBSC, UK: Omicron - BA.1.1 (#101054), thanks to the contribution of Dr Kevin Bewley".

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MATERIAL SAFETY SHEET

Physical properties (at room temperature)			
Physical appearance	Yellow/Pink, liquid		
Fire hazard	None		
Chemical properties			
Stable	Yes	Corrosive:	No
Hygroscopic	No	Oxidising:	No
Flammable	No	Irritant:	No
Other: Live SARS-CoV-2. It is the responsibility of the end user to seek local biosafety approval for the storage and handling of the material in their workplace			
Handling: CAUTION - This preparation is not for administration to humans or animals in the human food chain. This preparation is hazardous to health. It should be used and discarded according to your own laboratory's safety procedures. Such safety procedures should include the wearing of protective clothing, gloves and use within ACDP3 or higher facility.			
Toxicological properties			
Effects of inhalation:	Likelihood of Coronavirus infection		
Effects of ingestion:	Likelihood of Coronavirus infection		
Effects of skin absorption:	Not established, avoid contact with skin		
Suggested First Aid			
Inhalation	Seek medical advice		
Ingestion	Seek medical advice		
Contact with eyes	Wash with copious amounts of water. Seek medical advice.		
Contact with skin	Wash thoroughly with water.		
Action on Spillage and Method of Disposal			
Spillage of contents should be taken up with absorbent material wetted with an appropriate virucidal agent. Rinse area with an appropriate virucidal agent followed by water. Absorbent materials used to treat spillage should be treated as biologically hazardous waste.			

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