



DATA SHEET

REAGENT SARS-CoV-2 Omicron - lineage EG.5.1.1 (**infectious**)

REPOSITORY REFERENCE 101122

LOT NUMBER 03102023

DESCRIPTION Passage 2 Omicron EG.5.1.1 isolate grown in the Vero/hSLAM cell line. Originally isolated and passaged in the Vero/hSLAM cell line by UKHSA.

SEQUENCE In blue are EG.5.1.1 defining 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 | HGVSp |
|---------------------------|-----------|-----|------------|--------|------------------|
| 4 | A | T | 0.2 | orf1ab | . |
| 44 | C | T | 1 | orf1ab | . |
| 241 | C | T | 1 | orf1ab | . |
| 405 | A | G | 1 | orf1ab | p.K47R |
| 670 | T | G | 1 | orf1ab | p.S135R |
| 2334 | C | T | 1 | orf1ab | p.A690V |
| 2790 | C | T | 1 | orf1ab | p.T842I |
| 3037 | C | T | 1 | orf1ab | p.F924F |
| 4184 | G | A | 1 | orf1ab | p.G1307S |
| 4321 | C | T | 1 | orf1ab | p.A1352A |
| 5720 | G | A | 0.88 | orf1ab | p.G1819S |
| 6032 | G | A | 0.97 | orf1ab | p.A1923T |
| 6541 | C | T | 0.99 | orf1ab | p.H2092H |
| 7114 | T | G | 1 | orf1ab | p.T2283T |
| 9344 | C | T | 1 | orf1ab | p.L3027F |
| 9424 | A | G | 1 | orf1ab | p.V3053V |
| 9534 | C | T | 1 | orf1ab | p.T3090I |
| 9693 | C | T | 0.62 | orf1ab | p.A3143V |
| 9866 | C | T | 1 | orf1ab | p.L3201F |
| 10029 | C | T | 1 | orf1ab | p.T3255I |
| 10198 | C | T | 1 | orf1ab | p.D3311D |
| 10447 | G | A | 1 | orf1ab | p.R3394R |
| 10449 | C | A | 1 | orf1ab | p.P3395H |
| 11287 | GTCTGTTTT | G | 0.88 | orf1ab | p.S3675_F3677del |
| 11296 | T | G | 0.99 | orf1ab | p.F3677L |
| 12789 | C | T | 1 | orf1ab | p.T4175I |
| 12880 | C | T | 1 | orf1ab | p.I4205I |
| 13627 | G | A | 1 | orf1ab | p.M4454I |
| 14327 | C | T | 0.1 | orf1ab | p.Q4688* |
| 14408 | C | T | 1 | orf1ab | p.L4715L |
| 14988 | T | C | 1 | orf1ab | p.M4908T |

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| Position (NC_045512.2) | Ref | Alt | Proportion | Gene | HGVSp |
|---------------------------|-----------|-----|------------|--------|------------------|
| 15451 | G | A | 1 | orf1ab | p.A5062A |
| 15714 | C | T | 1 | orf1ab | p.S5150F |
| 15738 | C | T | 0.63 | orf1ab | p.S5158L |
| 15939 | T | C | 1 | orf1ab | p.I5225T |
| 16342 | T | C | 1 | orf1ab | p.Y5359Y |
| 16878 | A | T | 1 | orf1ab | p.Q5538L |
| 17410 | C | T | 1 | orf1ab | p.Y5715Y |
| 17859 | T | C | 1 | orf1ab | p.M5865T |
| 18163 | A | G | 1 | orf1ab | p.T5966T |
| 18492 | A | G | 1 | orf1ab | p.H6076R |
| 19326 | A | G | 1 | orf1ab | p.Q6354R |
| 19334 | A | C | 1 | orf1ab | p.I6357L |
| 19955 | C | T | 1 | orf1ab | p.L6564L |
| 20055 | A | G | 1 | orf1ab | p.K6597R |
| 21618 | C | T | 1 | S | p.T19I |
| 21632 | TTACCCCTG | T | 0.95 | S | p.L24_A27delinsS |
| 21718 | G | T | 0.44 | S | p.Q52H |
| 21810 | T | C | 1 | S | p.V83A |
| 21987 | G | A | 1 | S | p.G142D |
| 21990 | TTTA | T | 0.93 | S | p.Y145del |
| 22000 | C | A | 1 | S | p.H146Q |
| 22109 | C | G | 1 | S | p.Q183E |
| 22200 | T | A | 1 | S | p.V213E |
| 22317 | G | T | 1 | S | p.G252V |
| 22320 | A | G | 1 | S | p.D253G |
| 22480 | C | T | 0.58 | S | p.F306F |
| 22577 | GG | CA | 1 | S | p.G339H |
| 22599 | G | C | 1 | S | p.R346T |
| 22643 | TGT | ACA | 0.06 | S | p.C361T |
| 22664 | C | A | 1 | S | p.L368I |
| 22674 | C | T | 1 | S | p.S371F |
| 22679 | T | C | 1 | S | p.S373P |
| 22686 | C | T | 1 | S | p.S375F |
| 22688 | A | G | 1 | S | p.T376A |
| 22775 | G | A | 1 | S | p.D405N |
| 22786 | A | C | 1 | S | p.R408S |
| 22813 | G | T | 1 | S | p.K417N |
| 22882 | T | G | 1 | S | p.N440K |
| 22895 | GT | CC | 1 | S | p.V445P |
| 22898 | G | A | 1 | S | p.G446S |
| 22930 | T | A | 1 | S | p.F456L |
| 22942 | T | G | 1 | S | p.N460K |
| 22992 | G | A | 1 | S | p.S477N |
| 22995 | C | A | 1 | S | p.T478K |
| 23013 | AA | CT | 1 | S | p.E484A |
| 23018 | TT | CC | 1 | S | p.F486P |
| 23031 | T | C | 1 | S | p.F490S |
| 23055 | A | G | 1 | S | p.Q498R |
| 23063 | A | T | 1 | S | p.N501Y |
| 23075 | T | C | 1 | S | p.Y505H |
| 23403 | A | G | 1 | S | p.D614G |
| 23525 | C | T | 1 | S | p.H655Y |
| 23599 | T | G | 1 | S | p.N679K |
| 23604 | C | A | 1 | S | p.P681H |
| 23854 | C | A | 1 | S | p.N764K |
| 23948 | G | T | 1 | S | p.D796Y |
| 24424 | A | T | 1 | S | p.Q954H |
| 24469 | T | A | 1 | S | p.N969K |
| 25000 | C | T | 1 | S | p.D1146D |



| Position (NC_045512.2) | Ref | Alt | Proportion | Gene | HGVSp |
|---------------------------|-------------------------------------|-----|------------|-------|--------------|
| 25416 | C | T | 1 | ORF3a | p.F8F |
| 25572 | C | T | 1 | ORF3a | p.S60S |
| 25584 | C | T | 1 | ORF3a | p.T64T |
| 26060 | C | T | 0.9 | ORF3a | p.T223I |
| 26270 | C | T | 1 | E | p.T9I |
| 26275 | A | G | 1 | E | p.T11A |
| 26577 | C | G | 1 | M | p.Q19E |
| 26709 | G | A | 1 | M | p.A63T |
| 26858 | C | T | 1 | M | p.F112F |
| 27259 | A | C | 1 | ORF6 | p.R20R |
| 27382 | GAT | CTC | 1 | ORF6 | p.D61L |
| 27507 | A | C | 1 | ORF7a | p.G38G |
| 27620 | A | G | 1 | ORF7a | p.Q76R |
| 27807 | C | T | 1 | ORF8 | . |
| 27915 | G | T | 1 | ORF8 | p.G8* |
| 28271 | A | T | 1 | N | . |
| 28297 | T | C | 1 | N | p.N8N |
| 28311 | C | T | 1 | N | p.P13L |
| 28361 | GGAGAACGCA | G | 0.87 | N | p.E31_S33del |
| 28370 | A | T | 0.05 | N | p.S33C |
| 28881 | GG | AA | 1 | N | p.R203K |
| 28883 | G | C | 1 | N | p.G204R |
| 29510 | A | C | 1 | N | p.S413R |
| 29625 | C | T | 1 | ORF10 | p.S23F |
| 29733 | CGAGGCCACGCGG AGTACGATCGAGT G | C | 0.57 | S | . |

PROVIDED 0.5mL of cell culture supernatant

APPLICATIONS Infectivity assay, viral growth, neutralisation assay.

DEPOSITOR Original virus (passage 1) received from UKHSA, Porton Down, UK.

ACKNOWLEDGMENTS Acknowledgment for publications should read "The following reagent was obtained from the Centre For AIDS Reagents, NIBSC, UK: Omicron - lineage EG.5.1.1 (#101122), thanks to the contribution of Dr Naomi Coombes".

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. | |