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SM. 1. Sequencing parameters for RSV clinical specimens in the targeted whole-genome sequencing (RSVAB WGS) method. The included a description of the subtype, Ct values obtained in the viral RT-PCR used for detection and subtyping, sequencing/assembly metrics for Illumina sequencing, and GISAID accession number. N/A: not applied, the sequencer were not uploaded to the data base due to the low viral coverage

Seq ID	Subtype	Cycle threshold	Reads virus	Average depth of coverage	% genome coverage	Sequencing reagents	GISAID ID
HRSV/A/Spain/MD-224741/2022	A	14,33	4079086	1905	94	NextSeq	EPI_ISL_18463183
HRSV/A/Spain/MD-224420/2022	A	15,1	1339929	923	93	NextSeq	EPI_ISL_18463185
HRSV/A/Spain/MD-224512/2022	A	16,8	6141752	744	98	NextSeq	EPI_ISL_18463167
HRSV/A/Spain/MD-224199/2022	A	15,75	1479714	461	93	NextSeq	EPI_ISL_18463162
HRSV/A/Spain/MD-192731/2019	A	16,1	108192	330	93	MiSeq	EPI_ISL_18463188
HRSV/A/Spain/MD-190041/2018	A	17,08	3131245	402	98	NextSeq	EPI_ISL_18463190
HRSV/A/Spain/MD-224747/2022	A	17,19	5671738	1237	94	NextSeq	EPI_ISL_18463170
HRSV/A/Spain/MD-224870/2022	A	18,06	4013221	483	93	NextSeq	EPI_ISL_18463181
HRSV/A/Spain/MD-192780/2019	A	20,07	96138	827	92	MiSeq	EPI_ISL_18463177
HRSV/A/Spain/MD-224532/2022	A	20,44	3283955	1483	93	NextSeq	EPI_ISL_18463184
HRSV/A/Spain/MD-224979/2022	A	21,1	4201472	684	93	NextSeq	EPI_ISL_18463165
HRSV/A/Spain/MD-192569/2019	A	22,11	60661	235	92	MiSeq	EPI_ISL_18463174
HRSV/A/Spain/MD-192566/2019	A	22,19	105743	419	92	MiSeq	EPI_ISL_18463178
HRSV/A/Spain/MD-224273/2022	A	24,82	3830104	298	93	NextSeq	EPI_ISL_18463186
HRSV/A/Spain/MD-190018/2019	A	25,06	1029584	416	84	NextSeq	EPI_ISL_18463171
HRSV/A/Spain/MD-192775/2019	A	26,04	75640	718	89	MiSeq	EPI_ISL_18463173
HRSV/B/Spain/MD-220011/2022	B	14,01	1576919	155	94	NextSeq	EPI_ISL_18463187
HRSV/B/Spain/MD-191255/2019	B	15,1	24053	215	97	MiSeq	EPI_ISL_18463189

HRSV/B/Spain/MD-190043/2018	B	15,31	1008076	511	94	NextSeq	EPI_ISL_18463191
HRSV/B/Spain/MD-220471/2022	B	16,39	897973	635	93	NextSeq	EPI_ISL_18463172
HRSV/B/Spain/MD-190037/2018	B	17,84	144557	722	91	NextSeq	EPI_ISL_18463192
HRSV/B/Spain/MD-190055/2018	B	18,03	18478	681	91	MiSeq	EPI_ISL_18463179
HRSV/B/Spain/MD-220289/2021	B	19,33	1270851	525	93	NextSeq	EPI_ISL_18463168
HRSV/B/Spain/MD-190038/2018	B	20,4	561536	438	93	NextSeq	EPI_ISL_18463166
HRSV/B/Spain/MD-190030/2018	B	21,52	2044623	470	95	NextSeq	EPI_ISL_18463169
HRSV/B/Spain/MD-224976/2022	B	22,58	1528920	511	95	NextSeq	EPI_ISL_18463180
HRSV/B/Spain/MD-190021/2018	B	22,97	192909	525	94	NextSeq	EPI_ISL_18463175
HRSV/B/Spain/MD-223807/2022	B	23,2	334884	711	90	NextSeq	EPI_ISL_18463176
HRSV/B/Spain/MD-224877/2022	B	25,45	549725	414	94	NextSeq	EPI_ISL_18463182
HRSV/B/Spain/MD-224510/2022	B	26,36	1108906	100	95	NextSeq	EPI_ISL_18463164
HRSV/B/Spain/GA-224031/2022	B	27,04	114713	116	87	NextSeq	EPI_ISL_18463163
HRSV/B/Spain/MD-224022/2022	B	27,99	31391	11	60	NextSeq	N/A
HRSV/B/Spain/MD-224193/2022	B	29,1	83013	11	65	NextSeq	N/A
HRSV/B/Spain/MD-220013/2022	B	29,4	1234	5	40	NextSeq	N/A

SM.2. Sequence identification, subtype, cycle threshold obtained in the characterization PCR, GISAID number of accessions using the targeted RSVGF method.

Seq ID	Subtype	Cycle threshold	G and F complete	GISAID ID
HRSV/A/Spain/MD-224741/2022	A	14,33	Yes	EPI_ISL_18463183
HRSV/A/Spain/MD-224880/2022	A	14,48	Yes	EPI_ISL_18469715
HRSV/A/Spain/MD-224753/2022	A	14,68	Yes	EPI_ISL_18469716
HRSV/A/Spain/MD-224206/2022	A	15,04	Yes	EPI_ISL_18469676
HRSV/A/Spain/MD-224509/2022	A	15,15	Yes	EPI_ISL_18469707
HRSV/A/Spain/MD-224974/2022	A	15,3	Yes	EPI_ISL_18469655
HRSV/A/Spain/MD-220298/2021	A	15,42	Yes	EPI_ISL_18469662
HRSV/A/Spain/MD-221551/2022	A	15,45	Yes	EPI_ISL_18469664
HRSV/A/Spain/MD-223338/2022	A	15,73	Yes	EPI_ISL_18469667
HRSV/A/Spain/MD-224199/2022	A	15,75	Yes	EPI_ISL_18463162
HRSV/A/Spain/MD-224500/2022	A	15,98	Yes	EPI_ISL_18469696
HRSV/A/Spain/MD-224512/2022	A	16,08	Yes	EPI_ISL_18463167
HRSV/A/Spain/MD-224526/2022	A	16,16	Yes	EPI_ISL_18469711
HRSV/A/Spain/MD-224514/2022	A	16,26	Yes	EPI_ISL_18469708

HRSV/A/Spain/MD-224748/2022	A	16,29	Yes	EPI_ISL_18469656
HRSV/A/Spain/MD-224518/2022	A	16,5	Yes	EPI_ISL_18469709
HRSV/A/Spain/MD-224400/2022	A	16,64	Yes	EPI_ISL_18469700
HRSV/A/Spain/MD-220283/2022	A	17,01	Yes	EPI_ISL_18469661
HRSV/A/Spain/MD-224528/2022	A	17,03	Yes	EPI_ISL_18469713
HRSV/A/Spain/MD-224508/2022	A	17,1	Yes	EPI_ISL_18469706
HRSV/A/Spain/MD-223769/2022	A	17,12	Yes	EPI_ISL_18469668
HRSV/A/Spain/MD-224747/2022	A	17,19	Yes	EPI_ISL_18463170
HRSV/A/Spain/MD-224205/2022	A	17,31	Yes	EPI_ISL_18469675
HRSV/A/Spain/MD-224134/2022	A	17,38	Yes	EPI_ISL_18469669
HRSV/A/Spain/MD-224404/2022	A	17,98	Yes	EPI_ISL_18469701
HRSV/A/Spain/MD-224870/2022	A	18,06	Yes	EPI_ISL_18463181
HRSV/A/Spain/MD-224390/2022	A	18,07	Yes	EPI_ISL_18469691
HRSV/A/Spain/MD-224537/2022	A	18,07	Yes	EPI_ISL_18469657
HRSV/A/Spain/MD-224419/2022	A	18,18	Yes	EPI_ISL_18469704
HRSV/A/Spain/MD-222929/2022	A	18,22	Yes	EPI_ISL_18469666
HRSV/A/Spain/MD-224535/2022	A	18,28	Yes	EPI_ISL_18469717
HRSV/A/Spain/MD-224503/2022	A	18,34	Yes	EPI_ISL_18469697
HRSV/A/Spain/MD-224380/2022	A	18,42	Yes	EPI_ISL_18469687
HRSV/A/Spain/MD-224598/2022	A	18,42	Yes	EPI_ISL_18469714
HRSV/A/Spain/MD-224382/2022	A	18,48	Yes	EPI_ISL_18469688
HRSV/A/Spain/MD-224504/2022	A	18,5	Yes	EPI_ISL_18469698
HRSV/A/Spain/MD-224275/2022	A	18,81	Yes	EPI_ISL_18469679
HRSV/A/Spain/MD-224499/2022	A	18,83	Yes	EPI_ISL_18469695
HRSV/A/Spain/MD-224421/2022	A	18,86	Yes	EPI_ISL_18469705
HRSV/A/Spain/MD-224278/2022	A	18,97	Yes	EPI_ISL_18469681
HRSV/A/Spain/MD-224138/2022	A	19,11	Yes	EPI_ISL_18469670
HRSV/A/Spain/MD-224524/2022	A	19,14	Yes	EPI_ISL_18469710
HRSV/A/Spain/MD-224395/2022	A	19,29	Yes	EPI_ISL_18469699
HRSV/A/Spain/MD-224405/2022	A	19,38	Yes	EPI_ISL_18469702
HRSV/A/Spain/MD-224276/2022	A	19,41	Yes	EPI_ISL_18469680
HRSV/A/Spain/MD-222928/2022	A	19,44	Yes	EPI_ISL_18469665
HRSV/A/Spain/MD-224289/2022	A	19,47	Yes	EPI_ISL_18469685
HRSV/A/Spain/MD-224596/2022	A	19,5	Yes	EPI_ISL_18469720
HRSV/A/Spain/MD-224527/2022	A	19,55	Yes	EPI_ISL_18469712
HRSV/A/Spain/MD-224407/2022	A	19,7	Yes	EPI_ISL_18469703
HRSV/A/Spain/MD-224379/2022	A	19,75	Yes	EPI_ISL_18469686
HRSV/A/Spain/MD-224533/2022	A	19,81	Yes	EPI_ISL_18469658
HRSV/A/Spain/MD-224159/2022	A	19,93	Yes	EPI_ISL_18469673
HRSV/A/Spain/MD-224397/2022	A	20,04	Yes	EPI_ISL_18469659
HRSV/A/Spain/MD-224399/2022	A	20,15	Yes	EPI_ISL_18469718
HRSV/A/Spain/MD-224384/2022	A	20,32	Yes	EPI_ISL_18469690
HRSV/A/Spain/MD-220301/2021	A	20,36	Yes	EPI_ISL_18469663
HRSV/A/Spain/MD-224532/2022	A	20,44	Yes	EPI_ISL_18463184
HRSV/A/Spain/MD-224592/2022	A	20,46	Yes	EPI_ISL_18469660

HRSV/A/Spain/MD-224393/2022	A	20,61	Yes	EPI_ISL_18469693
HRSV/A/Spain/MD-224280/2022	A	20,75	Yes	EPI_ISL_18469683
HRSV/A/Spain/MD-224027/2022	A	20,77	Yes	EPI_ISL_18469654
HRSV/A/Spain/MD-224391/2022	A	20,87	Yes	EPI_ISL_18469692
HRSV/A/Spain/MD-224269/2022	A	20,88	Yes	EPI_ISL_18469677
HRSV/A/Spain/MD-224140/2022	A	21,08	Yes	EPI_ISL_18469671
HRSV/A/Spain/MD-224980/2022	A	22,05	Yes	EPI_ISL_18469719
HRSV/A/Spain/MD-224271/2022	A	22,13	Yes	EPI_ISL_18469678
HRSV/A/Spain/MD-224282/2022	A	22,24	Yes	EPI_ISL_18469684
HRSV/A/Spain/MD-224279/2022	A	22,36	Yes	EPI_ISL_18469682
HRSV/A/Spain/MD-224443/2022	A	22,72	Yes	EPI_ISL_18469694
HRSV/A/Spain/MD-224383/2022	A	24,03	Yes	EPI_ISL_18469689
HRSV/A/Spain/MD-224204/2022	A	24,65	Yes	EPI_ISL_18469674
HRSV/A/Spain/MD-224273/2022	A	24,82	Yes	EPI_ISL_18463186
HRSV/A/Spain/MD-224157/2022	A	25,13	Yes	EPI_ISL_18469672
HRSV/B/Spain/MD-220777/2022	B	12,22	Yes	EPI_ISL_18470178
HRSV/B/Spain/MD-220011/2021	B	14,01	Yes	EPI_ISL_18470179
HRSV/B/Spain/MD-224517/2022	B	15,2	Yes	EPI_ISL_18470180
HRSV/B/Spain/MD-220471/2022	B	16,39	Yes	EPI_ISL_18463172
HRSV/B/Spain/MD-224139/2022	B	16,45	Yes	EPI_ISL_18470181
HRSV/B/Spain/MD-224195/2022	B	16,58	Yes	EPI_ISL_18470182
HRSV/B/Spain/MD-224749/2022	B	16,59	Yes	EPI_ISL_18470183
HRSV/B/Spain/MD-224534/2022	B	16,96	Yes	EPI_ISL_18470184
HRSV/B/Spain/MD-223194/2022	B	17,02	Yes	EPI_ISL_18470185
HRSV/B/Spain/GA-220577/2021	B	17,19	Yes	EPI_ISL_18474127
HRSV/B/Spain/MD-224745/2022	B	17,26	Yes	EPI_ISL_18470186
HRSV/B/Spain/MD-224203/2022	B	17,41	Yes	EPI_ISL_18470187
HRSV/B/Spain/MD-224519/2022	B	17,41	Yes	EPI_ISL_18470188
HRSV/B/Spain/MD-224752/2022	B	18,54	Yes	EPI_ISL_18470189
HRSV/B/Spain/MD-224513/2022	B	18,97	Yes	EPI_ISL_18470190
HRSV/B/Spain/GA-220563/2021	B	19	Yes	EPI_ISL_18470191
HRSV/B/Spain/MD-221800/2022	B	19,24	Yes	EPI_ISL_18470192
HRSV/B/Spain/MD-220289/2021	B	19,33	Yes	EPI_ISL_18463168
HRSV/B/Spain/GA-224026/2022	B	19,36	Yes	EPI_ISL_18470193
HRSV/B/Spain/MD-224388/2022	B	19,48	Yes	EPI_ISL_18470194
HRSV/B/Spain/MD-224357/2022	B	20,27	Yes	EPI_ISL_18470195
HRSV/B/Spain/GA-224028/2022	B	20,59	Yes	EPI_ISL_18470196
HRSV/B/Spain/GA-224020/2022	B	20,92	Yes	EPI_ISL_18470197
HRSV/B/Spain/MD-220294/2022	B	21,27	Yes	EPI_ISL_18470198
HRSV/B/Spain/MD-224976/2022	B	22,58	Yes	EPI_ISL_18463180
HRSV/B/Spain/MD-223807/2022	B	23,2	Yes	EPI_ISL_18463176
HRSV/B/Spain/MD-221150/2022	B	24,89	Yes	EPI_ISL_18470199
HRSV/B/Spain/MD-224877/2022	B	25,45	Yes	EPI_ISL_18463182
HRSV/B/Spain/MD-224510/2022	B	26,36	Yes	EPI_ISL_18463164
HRSV/B/Spain/MD-220284/2022	B	26,73	Yes	EPI_ISL_18470200

HRSV/B/Spain/GA-224031/2022	B	27,04	Yes	EPI_ISL_18463163
HRSV/B/Spain/GA-224022/2022	B	27,99	Yes	EPI_ISL_18470201
HRSV/B/Spain/MD-224193/2022	B	29,1	Yes	EPI_ISL_18470202
HRSV/B/Spain/MD-220013/2021	B	29,4	Yes	EPI_ISL_18470203