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(54) Title: COMPOSITIONS, KITS AND METHODS FOR DETECTION OF VIRAL SEQUENCES

	Strain	Complete genome (%)	Gene region (%)												
			1ab	1a	1b	S	3	E	M	7	8	10b	N	13	14
Nucleotide sequences	Bat-SL-CoVZC45	87.6	88.9	90.7	86.0	75.2	87.8	98.7	93.4	95.2	88.8	88.5	91.1	89.1	96.7
	Bat-SL-CoVZXC21	87.5	88.7	90.3	86.1	74.7	88.9	98.7	93.4	95.2	89.1	88.5	91.2	89.5	96.7
	SARS-CoV2	79.0	79.5	75.4	86.3	72.7	75.6	93.5	85.1	74.5	82.1	--	88.1	--	--
Amino acid sequences	Bat-SL-CoVZC45	--	95.6	95.6	95.8	80.2	90.9	100.0	96.6	93.4	87.6	94.2	94.3	73.2	92.9
	Bat-SL-CoVZXC21	--	95.2	95.1	95.5	79.6	92.0	100.0	96.6	93.4	88.4	94.2	94.3	73.2	92.9
	SARS-CoV2	--	86.2	80.5	95.6	76.2	73.1	94.7	90.1	68.9	85.2	--	90.3	--	--

FIG. 1A

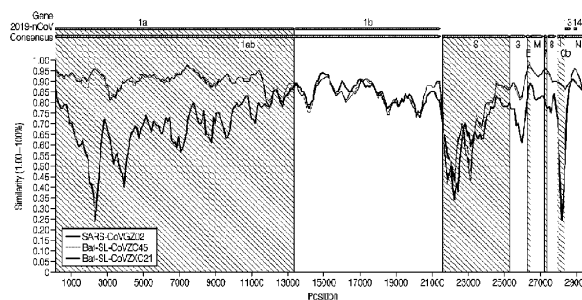


FIG. 1B

(57) Abstract: Compositions, assays, methods, diagnostic methods, kits, and diagnostic kits are disclosed for the specific and differential detection of SARS-CoV-2 and/or other viruses from samples, including veterinary samples, clinical samples, food samples, forensic sample, environmental samples (e.g., obtained from soil, garbage, sewage, air, water, food processing and manufacturing surfaces, or likewise), or biological sample obtained from a human or non-human animal.

[Continued on next page]

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