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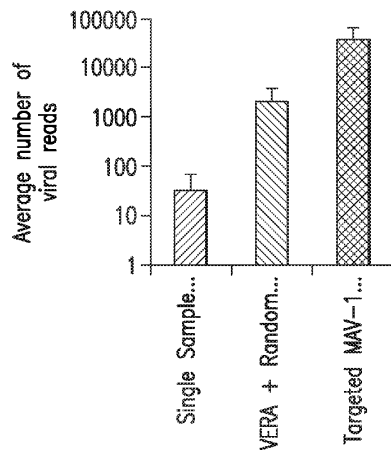


FIG.2

(57) Abstract: The present disclosure is directed to a streamlined sample preparation process, VERA (Viral Enrichment by Reducing Artifacts), to tilt total genomic material in favor of DNA/RNA viral genomes. This reduction of host genomic artifacts can be completed in <8 hours from sample acquisition. Using a rapid library preparation protocol (~15 minutes) and real-time nanopore sequencing, potential viral contamination, for example RNA viral contamination, can be identified in less than one workday from sample acquisition.

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