biological sample. In some embodiments, each target nucleic acid represents less than 0.1% of total nucleic acids in the biological sample. In some embodiments, each target nucleic acid represents less than 1 out of a million of total nucleic acids in the biological sample. In some embodiments, each target nucleic acid represents less than 1 out of 10 million of total nucleic acids in the biological sample.

[0055] The present disclosure also provides diagnostic methods comprising a step of detecting one or more target nucleic acids according to any one of the preceding methods.

[0055a] In a further aspect of the present disclosure, there is provided a diagnostic method comprising a step of detecting one or more target nucleic acids as described herein.

[0056] The present disclosure also provides kits for detecting target nucleic acid. In some embodiments, the present disclosure provides a kit for detecting target nucleic acid, comprising: particles comprising one or more probe regions bearing probes and one or more coding regions bearing detectable moieties that give the identity of the probes thereon, wherein the probes comprise target capturing sequence; a hyrbridization buffer with pre-determined ionic strength, buffered pH, and denaturing reagent (e.g., formamide and/or 2-pyrrolidone); a labeling buffer comprising one or more oligonucleotide adapters specifically designed to serve as sites for polymerase chain reaction priming and/or reverse transcription; and a PCR buffer containing primers, dNTPs, and reaction reagents for amplification of captured targets. In some embodiments, the kit further comprises a reverse transcriptase and a polymerase. In some embodiments, the kit further comprises a polymerase enzyme that has reverse transcriptase activity. In some embodiments, the kit further comprises a ligase enzyme.

[0057] As used in this application, the terms "about" and "approximately" are used as equivalents. Any numerals used in this application with or without about/approximately are meant to cover any normal fluctuations appreciated by one of ordinary skill in the relevant art.

[0058] Other features, objects, and advantages of the present disclosure are apparent in the detailed description that follows. It should be understood, however, that the detailed description, while indicating embodiments of the present disclosure, is given by way of illustration only, not limitation. Various changes and modifications within the scope of the present disclosure will become apparent to those skilled in the art from the detailed description.

16. A diagnostic method comprising a step of detecting one or more target nucleic acids according to any one of the preceding claims.