A METHOD OF PROFILING A MICROBIOME COMPOSITION

ABSTRACT

There is provided a method of profiling a microbiome composition in a sample comprising bacterial nucleic acid molecules, the method comprising a) partitioning the sample in a sufficient number of partitions such that at least a portion of the partitions comprises no more than one bacterial nucleic acid molecule; b) contacting the partitions of the sample to a plurality of mismatch-tolerant probes that are capable of binding to the bacterial nucleic acid molecules or parts thereof under suitable conditions; c) determining signals generated by each of the plurality of mismatch-tolerant probes in each partition; and d) establishing the microbiome composition in the sample based on the signals. Also disclosed is a method of determining a health and kits for uses in the methods as described herein.

Fig. 1