

12. A diagnostic kit for diagnosing a dengue virus in 15 minutes or less, wherein the diagnostic kit is prepared according to the method of any one of claims 1-11.

13. A diagnostic kit for diagnosing a dengue virus in 15 minutes or less, the diagnostic kit comprising:

a mixture comprising:

(i) a plurality of carbon nanotube based labels consisting of a plurality of a first oligonucleotide hybridised to a plurality of single walled carbon nanotubes, wherein the first oligonucleotide comprising a sequence selected from the group consisting of sequences 1 as shown in Table 1 that is complementary to a target sequence of the dengue virus; and

(ii) a plurality of conjugated magnetic beads consisting of a plurality of a second oligonucleotide immobilised to a plurality of magnetic beads, wherein the second oligonucleotide comprising a sequence selected from the group consisting of sequences 2 as shown in Table 1 that is complementary to the target sequence of the dengue virus;

wherein the plurality of carbon nanotube labels are hybridised with the plurality of conjugated magnetic beads, and

wherein the mixture is provided in one test tube.

14. The diagnostic kit of claim 13,

wherein the first oligonucleotide functions as a detection probe, and

wherein the first oligonucleotide is tagged with a NH_2 functional group on the 5' end of the first oligonucleotide to facilitate hybridisation of the plurality of the first