NUCLEIC ACID EXTRACTION METHOD

ABSTRACT OF THE DISCLOSURE

A nucleic acid extraction method includes the following steps. Firstly, a mixture of a sample and a lysis buffer is provided. The pH of the lysis buffer is lower than 7. Then, the mixture of the sample and the lysis buffer is transferred to a nucleic acid catching chamber containing chitosan coating material, so that nucleic acid of the sample is bound to the chitosan coating material. Then, the chitosan coating material is washed with at least one wash buffer, thereby removing residual protein and cell debris. Then, the chitosan coating material is eluted with an elution buffer while heating the chitosan coating material, so that the nucleic acid is separated from the chitosan coating material. The pH of the elution buffer is higher than 7.

[Figure 5]