What is clamed is:

1. An analysis system, which is characterized in that it comprises a holding member which holds ~~thea~~ capturing carrier comprising a polymer which undergoes a phase transition between a gel and a sol in the temperature range between 15°C and 40°C, a temperature controlling apparatus which controls the temperature of the capturing carrier, and an air stream controlling part which introduces air flow to the capturing carrier~~.~~, wherein an ATP eliminating agent is mixed in the polymer.

2. The analysis system according to Claim 1, which is characterized in that the temperature controlling apparatus can switch the heating and the cooling of the capturing carrier before and after the introduction of air flow to the capturing carrier.

3. The analysis system according to Claims 1 or 2, which is characterized in that, for the capturing carrier, the gel phase polymer is placed on top of ~~thea~~ filter for filtering a sol, a grid plate holding part which holds a grid plate constituting a filtration apparatus in combination with the filter is included, and the filtration apparatus can filter the polymer that is transformed into a sol by the temperature controlling apparatus.

~~4. A method for capturing and testing air borne microorganisms wherein it comprises:~~

~~a step of capturing microorganisms by which air borne~~

~~microorganisms are captured in a capturing carrier by spraying air comprising air borne microorganisms to the capturing carrier which consists of a polymer in gel phase and contains a test reagent; and~~

~~a step of recovering and adding by which the capturing carrier is heated at or less than 40°C for a phase transition to a sol phase so that the microorganisms captured in the capturing carrier are recovered from the capturing carrier and at the same time the test reagent is eluted from the capturing carrier, which has undergone a phase transition to a sol phase, and then added to the microorganisms above.~~