ABSTRACT

A novel composite, and research on the preparation, application and the like of the composite. The method for preparing the composite comprises: contacting a polyinosinic-polycytidylic acid, at least one cationic stabilizer, and a soluble calcium salt in a liquid reaction system, the cationic stabilizer being a water-soluble non-antibiotic amino compound having a molecular weight of less than or equal to 5 kDa, or a graft copolymer formed by a water-soluble non-antibiotic amino compound and one or more of methoxypolyethylene glycol, polyethylene glycol, polyethylenimine, folic acid, or galactose. The composite has moderate viscosity and molecular weight, is convenient to use in pharmaceutical application, has stable chemical properties, is not easy to be degraded in long-term storage, and is safe to use. The composite, if used alone, can significantly enhance the non-specific immune response of the body and achieve the purpose of preventing and treating diseases, and other drugs, and can achieve better anti-tumor, anti-viral and anti-(super) bacteria efficacy and is easily absorbed by patients, if used in combination with other drugs.

Figure.1