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(54) Title (EN): CERIUM OXIDE NANOPARTICLES, METHOD FOR ANALYZING NUCLEIC ACID, METHOD FOR ANALYZING POLYPEPTIDE, METHOD FOR MANUFACTURING CERIUM OXIDE NANOPARTICLES, OXIDIZING AGENT, ANTIOXIDANT, ANTIFUNGAL AGENT, AND ANTIVIRAL AGENT

(54) Title (FR): NANOPARTICULES D'OXYDE DE CÉRIUM, PROCÉDÉ D'ANALYSE D'ACIDE NUCLÉIQUE, PROCÉDÉ D'ANALYSE DE POLYPEPTIDE, PROCÉDÉ DE FABRICATION DE NANOPARTICULES D'OXYDE DE CÉRIUM, AGENT OXYDANT, ANTIOXYDANT, AGENT ANTIFONGIQUE ET AGENT ANTIVIRAL

(54) Title (JA): 酸化セリウムのナノ粒子、核酸の分解方法、ポリペプチドの分解方法、酸化セリウムのナノ粒子の製造方法、酸化剤、抗酸化剤、抗カビ剤および抗ウイルス剤

(57) Abstract:

(EN): The present invention addresses the problem of providing novel cerium oxide nanoparticles, and of finding a new application for said nanoparticles. The present invention provides cerium oxide nanoparticles and a method for analyzing a nucleic acid or a polypeptide using said cerium oxide nanoparticles, the surfaces of the cerium oxide nanoparticles being coated with a polyamide or a vinyl-based polymer having a piperazine, pyridine, imidazole, carbazole, or other heterocyclic amine skeleton.

(FR): La présente invention aborde le problème consistant à fournir de nouvelles nanoparticules d'oxyde de cérium, et à trouver une nouvelle application pour lesdites nanoparticules. La présente invention concerne des nanoparticules d'oxyde de cérium et un procédé d'analyse d'un acide nucléique ou d'un polypeptide à l'aide desdites nanoparticules d'oxyde de cérium, les surfaces des nanoparticules d'oxyde de cérium étant revêtues d'un polyamide ou d'un polymère à base de vinyle ayant un squelette de pipérazine, pyridine, imidazole, carbazole ou autre amine hétérocyclique.

(JA): 本発明は、新規な酸化セリウムのナノ粒子を提供すること、および当該ナノ粒子の新しい用途を見いだすことを課題とする。本発明は、ピペラジン、ピリジン、イミダゾールまたはカルバゾール等の複素環式アミン骨格を有する

ビニル系ポリマーまたはポリアミドで、表面が被覆された酸化セリウムのナノ粒子および当該酸化セリウムのナノ粒子を用いる核酸またはポリペプチドを分解する方法を提供する。

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