

## عنوان مقاله:

Gold nanoparticle nanosensor for detection of Salmonella spp. in foods

## محل انتشار:

هجدهمین کنگره ملی صنایع غذایی (سال: 1387)

تعداد صفحات اصل مقاله: 4

## نویسندگان:

Marjan Majdinasab - *Department of Food Science and Technology, School of Agriculture University of Shiraz, Shiraz, Iran*

Mahmood Aminlari - *Department of Food Science and Technology, School of Agriculture University of Shiraz, Shiraz, Iran*

M.Hossein Sheikhi - *Nanotechnology Research Institute, University of Shiraz, Shiraz, Iran*

Mehrdad Niakousari - *Department of Food Science and Technology, School of Agriculture University of Shiraz, Shiraz, Iran*

## خلاصه مقاله:

A polymerase chain reaction and a novel method using DNA-gold nanoparticles conjugates for specific and high sensitive detection of Salmonella spp. was reported. The technology utilizes gold nanoparticles derivatized with thiol modifiedoligonucleotides that are designed to bind complementary DNA targets. The hybridization between target (inv A of Salmonella )and nanoparticle probes creates links between the nanoparticles resulting in the formation of nanoparticle aggregates and colorshift that can be used for Salmonella detection in foods

## کلمات کلیدی:

(Salmonella, gold nanoparticles, Polymerase chain reaction (PCR

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/140454>

