Composition (RCUD) for protecting and/or repairing DNA from oxidative damages and a method thereof

Abstract

A composition useful for protecting and/or repairing DNA from oxidative damages said composition comprising redistilled cow's urine distillate (RCUD) having components benzoic acid, and hexanoic acid, with ammonia content of the composition ranging between 5-15 mg/L, and optionally along with anti-oxidants; and a method of protecting and/or repairing DNA from oxidative damages using composition of claim 1, said method comprising steps of estimating the amount of folded DNA in a sample, mixing the said composition to the said DNA either before or after the exposure of the DNA to the oxidatively DNA-damaging agent, and determining percentage folded DNA in the mixture showing protection and/or repair of DNA from oxidative damages.

Inventors: Chakrabarti; Tapan (Nagpur, IN), Sivanesan; Saravana Devi (Nagpur, IN), Kannan; Krishnamurthi (Nagpur, IN), Dutta; Dipanwita (Nagpur, IN), Singh; Rishi Narain (Nagpur, IN), Mansinghka; Sunil Balkrishna (Nagpur, IN), Dawle; Suresh Haribhau (Nagpur, IN)

Assignee: Council of Scientific & Industrial Research (New Dehli, IN)

Appl. No.: 10/404,448

Filed: April 2, 2003

Current U.S. Class: 435/6 ; 424/543

Current International Class: C12Q 1/68 (20060101); A61K 35/22 (20060101)

Field of Search: 424/545,543 435/6 536/22.1 436/172

References Cited

U.S. Patent Documents

5736576 April 1998 Kun et al.
6060310 May 2000 Cho-Chung
2002/0164378 November 2002 Khanuja et al.