



## Detection *Scl1* gene of *Streptococcus pyogenes* isolated from respiratory infection of local goats breed

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### Abstract

**This study** aimed to detect the molecular characterization of *Streptococcus pyogenes* (*S. pyogenes*) that isolated from respiratory diseases in

local goats breed in Najaf province. The research was done during one year period from April (2012 and 2013). Eighty-seven nasal swabs were taken from clinically infected goats, which showed typical respiratory signs such as nasal discharge, cough, fever, dyspnea and ocular mucopurulent discharge. Isolation and identification of *S. pyogenes* were determined by the classical microbiological techniques. Seventy-six (87.3%) bacterial isolates were grown on blood agar with Bacitracin disk. Out of 76 bacterial isolates, 48 (63%) were shown Beta-hemolysis and sensitivity to bacitracin disk while, 28 (36.8%) were resistance to bacitracin and revealed different hemolytic types. The results of molecular investigations confirmed the presence of streptococcal collagen-like protein (*Scl1*) gene in 7 (14.5%) out of 48 isolates by conventional PCR technique.

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