novel bacterial strain (or bacterium) is named LMB64.

This bacterium LMB64, in addition to the fact of having been isolated, was characterized and defined as belonging to the class of *Betaproteobacteria*, subfamily of *Neisseriaceae*, and probably of a novel genus not yet defined. Analysis of the gene sequence coding for 16S ribosomal RNA (rRNA) made it possible to place this bacterium close to the genera *Chromobacterium*, *Paludimonas, Lutelia* and *Glubenkiana*, with which it shares 95% sequence similarity.

This nonpathogenic bacterium is Gram-negative and will be described in greater detail in the examples. This bacterium also has the characteristic of being nonfilamentous. Moreover, this bacterium has the advantage of being able to be cultured on a medium containing any type of water, and more particularly, ordinary water. As an example, in contrast to *V. filiformis*, the culture of bacterium LMB64 of the present invention does not require particular culture conditions and, more particularly, does not require a medium containing at least one sulfur-free type of mineral and/or thermal water. This represents a clear advantage in terms of both culture conditions and facilities and from an economic point of view.

The gene coding for 16S rRNA has been almost completely sequenced (1487 bp, corresponding to sequence SEQ ID No. 1). Bacterium LMB64 has a circular plasmid of 10948 bp. This plasmid was completely sequenced and the sequence is represented in sequence SEQ ID No. 2.

Summary

In one aspect, there is provided an isolated nonpathogenic nonfilamentous Gram-negative bacterium belonging to the class of *Betaproteobacteria*, subfamily of *Neisseriaceae*, characterized in that the nucleotide sequence of the 16S rRNA gene of said bacterium includes sequence SEQ ID No. 1 and in that it includes at least one plasmid comprising sequence SEQ ID No. 2, or any sequence with at least 80% identity with said sequence SEQ ID No. 2.

In another aspect, there is provided a bacterial extract obtained from a suspension of bacteria as defined herein.

In another aspect, there is provided the use of a bacterium as defined herein and/or a bacterial extract as defined herein for the preparation of a composition for the treatment and/or the prevention of dermatological inflammatory disorders.

In another aspect, there is provided a composition comprising, as an active ingredient, at least one bacterium as defined herein and/or one bacterial extract as defined herein.

In another aspect, there is provided a composition as defined herein, for use in therapy.

Detailed Description

According to a first embodiment, the present invention relates to a nonpathogenic Gram-negative bacterium belonging to the class of *Betaproteobacteria*, subfamily of *Neisseriaceae*, whose nucleotide sequence of the gene coding for 16S rRNA includes or comprises the sequence SEQ ID No. 1, or any nucleotide sequence with at least 80%, preferably 85%, 90 %, 95% and 98% identity with said sequence SEQ ID No. 1.

In a preferred manner, the present invention relates to a nonpathogenic Gram-negative bacterium belonging to the class of *Betaproteobacteria*, subfamily of *Neisseriaceae*, characterized in that the nucleotide sequence of the 16S rRNA gene of said bacterium includes or comprises the sequence SEQ ID No. 1.

In the context of the present invention, "percentage identity" between two nucleic acid sequences refers to a percentage of identical nucleotides between the two