Patent Document 4: WO 2011/65300

Non Patent Document

[0007]

Non Patent Document 1: A. Tanaka et al., The Society for Applied Microbiology, 2011, 35-43

Summary ~~of Invention~~

Technical Problem

[0008]

The present ~~invention~~ disclosure was made in consideration of the above-described background art, and its purpose is to provide a food composition or a pharmaceutical composition which prevents or inhibits pneumococcal infection and the infection from becoming severe during the occurrence of the infection by routine ingestion.

Solution to Problem

[0009]

The prophylactic agent for pneumococcal infection according to the present ~~invention~~ disclosure is characterized in that it comprises a fermentation product of Lactobacillus delbrueckii ssp. bulgaricus OLL1073R-1.

[0009a]

In an aspect, there is provided a prophylactic agent for pneumococcal infection comprising a fermentation product of Lactobacillus delbrueckii ssp. bulgaricus OLL1073R-1 as an active ingredient.

[0009b]

In another aspect, there is provided the use of a fermentation product of Lactobacillus delbrueckii ssp. bulgaricus OLL1073R-1 in the manufacture of a medicament for preventing pneumococcal infection and/or for preventing or inhibiting the infection from becoming severe during the occurrence of the pneumococcal infection, wherein the medicament is to be used with medical practices or non-medical practices.

Advantageous Effects of Invention

[0010]

Ingestion of the prophylactic agent according to the present invention prevents pneumococcal infection, and prevents or inhibits the infection from becoming severe during the occurrence of the infection.

Brief Description of Drawings

[0011]

Fig. 1 is a figure showing comparison of survival rates after infection.

Fig. 2 is a figure showing comparison of the number of the intrapulmonary viable bacteria.

CLAIMS

1. A prophylactic agent for pneumococcal infection comprising a fermentation product of Lactobacillus delbrueckii ssp. bulgaricus OLL1073R-1 as an active ingredient.

2. The prophylactic agent for pneumococcal infection according to Claim 1, containing at least viable bacteria of Lactobacillus delbrueckii ssp. bulgaricus OLL1073R-1.

3. The prophylactic agent for pneumococcal infection according to Claim 1 or 2, wherein the fermentation product is a fermentation product with Lactobacillus delbrueckii ssp. bulgaricus OLL1073R-1 and Streptococcus thermophiles.

4. The use of a fermentation product of Lactobacillus delbrueckii ssp. bulgaricus OLL1073R-1 in the manufacture of a medicament ~~A method~~ for preventing pneumococcal infection and/or ~~a method~~ for preventing or inhibiting the infection from becoming severe during the occurrence of the pneumococcal infection, ~~by ingesting a fermentation product of Lactobacillus delbrueckii ssp. bulgaricus OLL1073R-1~~ wherein the medicament is to be used with medical practices or non-medical practices.

5. The ~~method~~ use according to Claim 4, containing at least viable bacteria of *Lactobacillus delbrueckii ssp. bulgaricus* OLL1073R-1.

6. The ~~method~~ use according to Claim 4 or 5, wherein the fermentation product is a fermentation product with Lactobacillus delbrueckii ssp. bulgaricus OLL1073R-1 and Streptococcus thermophiles.