【CLAIMS】

【Claim 1】

A cosmetic composition for treating skin cell damage caused by fine dust, comprising green tea-derived lactic acid bacteria, a lysate thereof, a culture thereof or an extract thereof as an active ingredient,

wherein the green tea-derived lactic acid bacteria are *Lactobacillus plantarum* APsulloc 331266 (KCCM11181P).

【Claim 2】

A health functional food cosmetic composition for treating skin cell damage caused by fine dust, comprising green tea-derived lactic acid bacteria, a lysate thereof, a culture thereof or an extract thereof as an active ingredient,

wherein the green tea-derived lactic acid bacteria are *Lactobacillus plantarum* APsulloc 331266 (KCCM11181P).

【Claim 3】

The composition according to claim 1 or 2, wherein the active ingredient is an apoptotic body of green tea-derived lactic acid bacteria.

【Claim 4】

The composition according to claim 1 or 2, wherein the green tea-derived lactic acid bacteria, the lysate thereof, the culture thereof or the extract thereof is comprised in an amount of 0.000001-30 wt% based on the total weight of the composition.

【Claim 5】

The composition according to claim 1 or 2, wherein the active ingredient of the composition acts on the tight junction of the skin barrier.

【Claim 6】

The composition according to claim 1 or 2, wherein the composition restores the expression of one or more of keratin 1 (KRT 1), claudin 1 (CLDN 1), claudin 4 (CLDN 4) and occludin (OCLN).

【Claim 7】

The composition according to claim 1 or 2, wherein the fine dust comprises one or more of arsenic, cadmium, lead and nickel.

【Claim 8】

The composition according to claim 1 or 2, wherein the fine dust has a particle size of PM 10 or less.

【Claim 9】

The composition according to claim 1 or 2, wherein the active ingredient of the composition is administered at a dosage of 10-500 mg/kg/day.