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(54) **MICROORGANISM CAPABLE OF PRODUCING gamma-L-PGA, METHOD FOR PRODUCTION OF gamma-L-PGA USING THE MICROORGANISM, CROSSLINKED PRODUCT, AND AGENT FOR EXTERNAL APPLICATION TO THE SKIN**

(57) There are provided a microorganism **characterized by** producing poly- γ -L-glutamate with a molecular weight of 1,300,000 or greater and uniform optical purity under liquid culture conditions, a method of screening for the microorganism, a method of producing poly- γ -L-

glutamate having large molecular weight by using the microorganism, and poly- γ -L-glutamate having an average molecular weight of 1,300,000 or greater. In addition, usages of these are provided.

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