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ABSTRACT

A METHOD OF SECRETORY EXPRESSION OF LYSOSTAPHIN IN *ESCHERICHIA COLI* AT HIGH LEVEL

A method of secretory expression of lysostaphin in *Escherichia coli* at high level, which comprises constructing a expression vector by cloning a sequence encoding a signal peptide which is suitable for secretory expression in Escherichia coli before part or whole gene sequence which encodes mature lysostaphin, and ligating the cloned sequence with a promoter; and transforming Escherichia coli with the expression vector, culturing and fermenting, and then isolating lysostaphin from the supernatant of the fermentation broth. The advantage of secretory expression is that the expression product can exist in the medium in an active form, and thus does not need the process for renaturation of the inclusion body; it is more easily to purify from the supernatant of the fermentation broth with high rate of recovery; and there is less contamination from the host's proteins.