

ShF3a菌核酸自身转化分化为ShF2a菌及其生物学性状

邢念义 孙长柱 冯培军 郭素珍 尹炜

(中国人民解放军济南部队军事医学研究所)

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摘要 以福氏志贺氏3a菌原养型(ShF3a-P199: StrR•Met⁺) DND为供体, 与同来源之福氏志贺氏3a菌营养缺陷型(ShF3a-A2: Strs•Met⁻)为受体菌, 进行自身核酸转化, 在基本培养基上产生出对ShF3a和ShF2a菌血清都能发生凝集反应的菌落。这种菌经继代培养后便自身分离成单一菌型, 产生“菌型分化”现象。转化体菌经生特学试验是属于福氏志贺氏菌特征, 遗传特性稳定。同时观察到对抗生素耐药性上有不同的变化。菌落形态大小, 转化体菌(ShF2a-T)比ShF3a菌的菌落小得多。这个异型菌问题的产生对于福氏志贺氏菌的分类和流行病学及其在临床上都具有实际意义。琼脂糖凝胶电泳图谱观察到ShF3a菌和ShF2a菌中有许多分子量较小的各种不同的核酸区带。

关键词

分类号

Self-Transformation of ShF3a Nucleic Acid into ShF2a and Its Biological Characters

Xing Nianyi Sun Changzhu Feng Peijun Guo Suzhen Yin Wei

(Military Medical Research Institute, Jinan Army Unit.)

Abstract

Taking *Shigella flexner* 3a prototroph (ShF3a-P199: StrR•Met⁺) as the donor and *Shigella flexner* 3a auxotroph (ShF3a-A2: Strs•Met⁻), from the same source as the recipient we have carried out an experiment of their self-transformation. There appeared a germ-plasm which has agglutination reaction both to ShF3a and to ShF2a sera. By cultivations for several generations this kind of germ-plasm will separate by itself into a single germ form with "the germ-form phenomenon". From biological tests it can be seen that the transformed germ is characterized by *Shigella flexner*, and a stabilized inheritance. At the same time, it is observed that the germ has different reactions to antibiotic drugfast. Its shape and size of the transformed germ-plasm(ShF2a-T) are much smaller than that of the ShF3a germ-plasm. The appearance of different forms of this germ has given a certain practical significance to the classification of the *Shigella flexner*, as well as epidemiology and medical clinic treatment.

Through agarose gel electrophoresis, it is observed that there are many different nucleic acid areas with smaller molecular-weight in ShF3a and ShF2a germs.

Key words

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