Jun 04, 2022

Bacterial Delivery System

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[1]Creative Biogene

dx.doi.org/10.17504/protocols.io.kqdg3pyjpl25/v1

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Protein synthesis can be controlled with the bacterial translation machinery. Control of invasion is necessary to carry the produced proteins into cells. Invasion requires both flagella and the type III secretion system-1 (T3SS-1). Flagella are essential for cell invasion because they sense the cell surface and determine the optimal location for invasion32. T3SS-1 is a needle apparatus that initiates invasion by injecting effector proteins into cells. These proteins rearrange the actin cytoskeleton and induce endocytosis of the bacteria. Production of these two bacterial structures is controlled by the factors fliZ and hilD, which are, in turn, controlled by the master regulator flhDC. Protein release requires the activation of bacterial genes specifically inside cells. In*Salmonella*, this can be controlled with the promoters of SPI2 genes.

DOI

dx.doi.org/10.17504/protocols.io.kqdg3pyjpl25/v1

https://www.microbialtec.com/bacterial-delivery-system.html

contact.microbialtec 2022. Bacterial Delivery System. **protocols.io** https://dx.doi.org/10.17504/protocols.io.kqdg3pyjpl25/v1

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