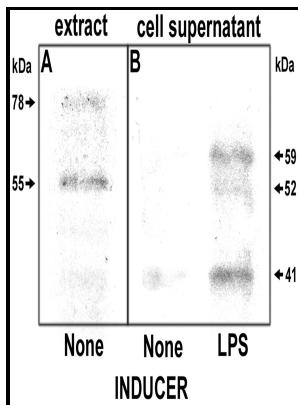


Molecular analysis of lipopolysaccharide and membrane associated proteins in Rhizobium Leguminosarum.

University of East Anglia - Genetic analysis reveals links between lipid A structure and expression of the outer membrane protein gene, ropB, in Rhizobium leguminosarum



Description: -

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PssO, a unique extracellular protein important for exopolysaccharide synthesis in Rhizobium leguminosarum bv. trifolii

Transport and metabolism in legume-rhizobia symbioses. Annu Rev Genet, 2011; 45: 119—144. The algorithm is described in the ISO 3309 standard.

Genetics and Biosynthesis of Lipopolysaccharide

Biosynthesis of the VLCFA requires six unique genes: acpXL acyl carrier protein , fabZXL dehydratase , fabF2XL 2-oxo-acyl, acyl carrier protein synthase , fabF1XL 2-oxo-acyl, acyl carrier protein synthase , adh2XL dehydrogenase , and lpxXL acyltransferase.

Alteration of lipopolysaccharide and protein profiles in SDS

The fabXL genes were induced approximately two-fold in TY, or VMM with 1% hydrolyzed casein, compared with the expression in VMM with mannitol data not shown. Analysis of the lipid A samples was performed in the negative reflectron mode.

PssO, a unique extracellular protein important for exopolysaccharide synthesis in Rhizobium leguminosarum bv. trifolii

The lipopolysaccharide of Sinorhizobium meliloti suppresses defence-associated gene expression in cell cultures of the host plant *Medicago truncatula*. When the lipid A of the parent is compared with that of the mutant, the major penta- and tetraacylated ion clusters in the mutant lipid A were reduced by a mass of 176. The gel was fixed in the absence A or presence B of Alcian blue, followed by silver staining.

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