

IPD Project Details

Project ID: IPD9282

Project Title: Proteins from Outer Membrane Vesicles of *Pseudomonas syringae* Lz4W

Description: The proteins from Outer Membrane Vesicles (OMVs) were extracted by chilled acetone method. The proteins were separated on 1D SDS-PAGE (12%). From the gel, total 10 fractions were made and all of them were subjected to in gel digestion using trypsin. The MS/MS spectra of the resulting tryptic peptides were recorded by using LC coupled ESI-MS/MS (Thermo Orbitrap Velos). The mass spectral data thus obtained was analysed by using Proteome Discoverer 1.3. Since the genome sequence of *P. syringae* Lz4W is not available, the data was searched against a database prepared from 20 related *Pseudomonas* species whose genome sequence is available on Uniprot (Updated upto Jan 2013). The search was observed by using nodes Sequest and Mascot both, the enzyme selected was trypsin with maximum 2 missed cleavages, the precursor tolerance set at 10 ppm, fragment tolerance at 0.8 Da, carbamidomethylated cysteine (57.02 Da) as fixed modification, oxidised methionine (15.99 Da) as variable modification. After the search is over, the results were refined applying result filters as Peptide confidence (High) and Differentiable Proteins (including distinct proteins), which makes sure that each protein entry in the list is identified with at least one unique peptide.

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Sample Preparation: A cell lysate (CL) of *P. syringae* Lz4W was prepared as described earlier. See details in reference(s):

Peptide Separation: The proteins from OMV of *P. syringae* Lz4W were separated on a one-dimensional (1D) gel, excised into 8–10 pieces, and digested with trypsin using standard protocols. See details in reference(s):

Protein Characterization: A cell lysate (CL) of *P. syringae* Lz4W was prepared as described earlier. See details in reference(s):

Experiment Type: Bottom-up

Species: Data in species_details No Data

Tissue: Unknown No Data

Cell Type: Unknown No Data

Disease: Unknown No Data

Instrument Details: Data in instrument_details Data in instrument_details

Protein Modifications: monohydroxylated residue, iodoacetamide derivatized residue

PubMed ID: [24437924](#)