IPD Project Details

Project ID: IPD7165

Project Title: Exploration of buffalo CVM Staphylococcus pasteuri proteins during estrus by LC-MSMS

Description: The exploration of the secretary proteins of Staphylococcus pasteuri during estrus using the SDS page followed by LC-MS/MS.

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Sample Preparation: Bacterial proteins have been precipitated by trichloroacetic acid (TCA)-acetone precipitation method. The precipitated protein sample were loaded in 12% SDS-PAGE. The gel was stained with 0.5% Coomassie brilliant blue R-250, then destained until the appropriate background was obtained. The bands were alkylated with 55 mM iodoacetamide in 50mM ammonium bicarbonate at RT for 30 min.

Peptide Separation: The samples were digested with sequencing grade trypsin from bovine pancreas (Roche, Risch-Rotkreuz, Switzerland). Desalting of peptides is performed using C18 Pierce® Zip tips (Thermo Fisher Scientific, Waltham, MA, USA) before loading in a Nanospray capillary column (PepMapTM RSLC C18, Thermo Fisher Scientific, Waltham, MA, USA), and subjected to sequencing by MS/MS in Q-Exactive HF (Thermo Fisher Scientific, Waltham, MA, USA).

Protein Characterization: The spectra were analyzed using Proteome Discoverer (Version 2.2) against the NCBI protein database.

Experiment Type: Gel-based experiment

Species: Data in species_details No Data

Tissue: Unknown No Data

Cell Type: Data in cell_details No Data

Disease: Unknown No Data

Instrument Details: Data in instrument_details Data in instrument_details

Protein Modifications: iodoacetamide derivatized residue

PubMed ID: