

DEVELOPMENT OF A STANDARD OPERATING PROCEDURE FOR THE ANALYSIS OF 2DE GELS USING PHORETIX 2D SOFTWARE

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The RIT Proteomics Lab has is currently using 2-Dimensional Gel Electrophoresis in an attempt to develop a new method for carcinogen screening. Gel to gel comparison can prove difficult due to variability between gels and reproducibility problems. For this reason, Phoretix 2D software had been incorporated into the operating procedure. To reduce variability between experimenters while comparing gels, parameters and filters have been established based on an optimal number of protein spots. A protein list has also been integrated into the software that includes molecular weight, iso-electric point, accession number and description for every protein in the proteome for the bacteria *Pseudomonas pudita*.