



The Simple Available Phosphatase Enzyme Test For The Identification of Pathogenic Candida Species

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Abstract:

To demonstrate the production of hydrolytic enzyme such as phosphatase among candida species and strains. Candida was the most important yeast isolated from clinical material was noticeably producing enzyme. These are the virulence factor may play important role in pathogenicity of candidiasis and able to attack cell and molecules of host immune system to resist antimicrobial activity. The phosphatase test is not introduced here as regular identification test but could be available method for the separation of Candida albicans from other species of candida particularly C. tropicalis which is actively phosphatase producer. The total of 300 yeast sample were isolated from clinical material tested using p-nitrophenyl phosphatase as a substrate in SD-broth and SD-Agar followed by 3 protocol. In this study clearly observed phosphatase producer and non phosphatase producer strain of candida species. The variation in phosphatase production among pathogenic Candida species were effected by Ph, temperature, nutrient and substrate.

Biography:

Shumaila Naz Malik has completed her MS successfully



in 2015. After that she started working as Research Scholar at Jinnah University for Women, Karachi, Pakistan. She has strong academic and research background in the areas of Food Microbiology. Particularly, she has worked on Listeria monocytogenes. Her MS thesis was on "Rapid detection of Listeria monocytogenese in food sample after enrichment step". She worked as a Lecturer in the Department of Microbiology from 2011 till 2013. She has attended and organized several workshops, research posters exhibitions, conferences and seminars for the students and faculty, while in Pakistan.

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