



كلية الزراعة
قسم الميكروبيولوجيا الزراعية

Seoudi, O.A. د. أسامة عبد التواب سعودى
ABSTRACT



جامعة الفيوم

| | |
|---|--------------------------------|
| Gamal-Eldin H. M., Seoudi O. A. , Abd El-Salam, B. A. and Mahmoud, H. A. (2018). Screening of some yeast isolates for their antibacterial activity. Fayoum J. Agric. Res. & Dev. 32 (1): 31- 44. | بحث إضافي ثاني نشاط علمي |
| مشارك مع آخرين بالتخصص- منشور- مستخلص من رسالة. | II |

| | |
|---------------------|--|
| Title | Screening of some yeast isolates for their antibacterial activity. |
| Participants | Hosny M.Gamal-Eldin¹, Osama A.Seoudi¹, Baraka, A. Abd El-Salam² and Hemat A. Mahmoud² ¹ Agricultural Microbiology Department, Faculty of Agriculture, Fayoum University ² Dairy Research Department, Food Technology Research Institute, Agricultural Research Center |
| Journal | Fayoum Journal of Agriculture Research and Development, 32 (1): 31-44, 2018. |

ABSTRACT

Sixty-nine yeast isolates were collected from different sources. The isolates were tested using agar well diffusion and disc diffusion assays against eight medically important indicators. Results indicated that 48 (69.6%) of isolates exhibited antibacterial activity against one or more of the eight indicator bacteria. When pH was adjusted to 6.5, only 26 isolates were effective. The stability of yeast isolates supernatants at pH 6.5 against proteolytic enzymes was also tested. Only sixteen isolates were effective against test microorganisms. When the supernatants were treated with catalase and trypsin, only thirteen isolates showed antibacterial activity. The isolate Eg-Y2 was very effective against *Cl. tyrobutyricum* which is considered as one of the most dangerous anaerobic pathogens. . The 13 isolates were identified as *C. pelliculosa* ,*C. guillermondii*, *C. glabrata*, *C. famata*, *Cryptococcus neoformans*, *Rodo muciluginosa* using the 20 CUX API system.