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Identification of Different Candida Species Isolated in Various Hospitals in Ankara by Fungichrom Test Kit and Their Differentiation by SDS-PAGE

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Biology, Faculty of Sciences, Ankara University, 06100, Tandoğan, Ankara- TURKEY Abstract :
Identification of 78 Candida isolates was carried out by a commercial Fungichrom test kit, the reliability
of which was further confirmed by conventional biochemical tests and the API 20C kit. Differentiation
between different Candida species was also observed when sodium dodecyl sulfate polyacrylamide gel
electrophoresis (SDS-PAGE) of whole cell proteins was used. The most frequently isolated species of
yeast from vaginal swabs obtained from patients was Candida albicans, which accounted for 39 of 78
(50.00%) of the isolates from women in Ankara. The next most frequent Candida species were Candida
glabrata (Torulopsis glabrata) and Candida krusei, which were isolated from 26.92 and 11.53% of the
women respectively. Other species of Candida were cultured less often: 7 Candida kefir (8.97%); 1
Candida tropicalis (1.28%) and 1 Candida parapsilosis (1.28%). The results obtained in this study
strongly indicate that as an alternative to classical identification methods, the Fungichrom test can also
be used for rapid and accurate identification of all Candida sp.

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