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Effect of Antimicrobial Activity and Antitumor Activity by *Candida kefyr* Isolated fromTibetan Fermented Milk

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This study was carried out to investigate effect of antimicrobial activity and antitumor activity by *Candida kefyr* isolated from Tibetan fermented milk.

Ten strains of yeast were isolated from Tibetan fermented milk by agar diffusion method using the potato dextrose agar medium.

Ten isolated strains, showed weakly antimicrobial activities against *Staphylococcus aureus* 209P IFO1273, *Micrococcus luteus* ATCC11880, *Candida albicans* IFO1594, *Cryptococcus neoformans*, *Sacchromyces cerevisiae* IFO1008, *Penicillium nalgiovens*, *Streptomyces murinus* JCM4333. On the other hand, ten isolated strains, from MTT assay using nine tumor cell lines originated from human, SNU-5, SW-534 showed the effect of growth inhibition above 60%. Among them, the strain TFP-7 showed the most excellent antitumor activity against SNU-5, SW-534.

From the results of identification test using API 20C AUX kit and scanning electron microphotograph, the strain TFP-7 were identified as subspecies of *Candida kefyr*. Tibetan fermented milk showed titratable acidity 2.29%, pH 3.20, growth inhibition of SNU-5 85% and inhibition zone of *Streptomyces murinus* JCM4333 26mm at the 24hrs.