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The Carbohydrate assimilation pattern in Iranian typical and atypical strains of *Microsporium Canis*

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Abstract:

The values of fourteen carbohydrates assimilation patterns were investigated for typical and atypical strains of *Microsporium canis*. Thirty eight strains of typical and twenty two strains of atypical *Microsporium canis*, *Microsporium canis* NCPF 352 and one *Microsporium distortum* were included in this study. Statistical analysis of the results indicated that despite limited variations within the pattern of carbohydrate utilization, no correlation. The results also revealed that erythritol and trehalose were best utilized for sporulation by the typical and atypical strains of *Microsporium canis*. Production of abundant macroconidia, microconidia and chlamydoconidia by use of erythritol and trehalose suggested that these two carbohydrates were effective in production of fluffy appearance in colonies examined. The *Microsporium canis* NCPF 352 strongly utilized glucose, mannitol and melibiose in addition to the two above-mentioned carbohydrates. Weak erythritol assimilation was observed by *Microsporium distortum*. Carbohydrate utilization pattern is unable to differentiate typical and atypical strains of *Microsporium canis*. But it could be regarded as a valuable aid for identification of *Microsporium distortum* as well as marker in epidemiological investigations.

Keywords:

[Microsporium canis](#) . [Microsporium distortum](#) . [Carbohydrate assimilation](#)

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