

# Abstract

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Title of the bachelor thesis: Laboratory diagnosis of dermatophytosis

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Degree course: Medical laboratory technician

My bachelor thesis is focused on laboratory diagnosis of dermatophytes. The purpose of this work is created summary of laboratory methods, which are used for diagnosis of dermatophytosis. Beginning of thesis is given to common characteristics of dermatophytes, taxonomony, nomenclature and morphology of individual genera. The big part of thesis creates summary of laboratory methods. There are described individual types of microscopy, cultural techniques, molecular methods and immunological methods. The end of the thesis is dealt with infections, which are caused by dermatophytes and their treatment. Light microscopy and culture are used most frequently.

**Key words:** dermatophytes, *Trichophyton*, *Microsporum*, *Epidermophyton*, laboratory diagnosis, *tinea*