



Information & Instruction Guide

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Diafactory Dermatophyte Test Strip



- Diagnosis in just 5 minutes
- 97% accurate
- Results unaffected by topical or oral anti-fungal treatments
- Detects 99% of all common dermatophyes with only a 1mg specimen
- No need to send nail sample off to the lab and await results
- Diagnose mycotic infections with confidence and without delay
- Can be used to determine mycological cure

ARTG#: 402694

Will test positive for all common

dermatophytes including:

- T. mentagrophytes
- T. rubrum
- T. tonsurans
- T. violaceum
- T. verrucosum
- M. gypseum
- M. canis
- E.floccosum



VIDEO - How to use Diafactory

We have produced the following video to display the simple and quick procedure for the Diafactory® Test Strip:



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Diafactory[®] Test Strips are an immunochromatography kit intended to detect Trichophyton-derived antigens in nails using anti-Trichophyton mouse monoclonal antibody that has been immobilized on a nitrocellulose membrane.



Key Materials

The test strip used in this kit is composed of a sample pad, a reagent strip, a judgment strip and an absorbent pad. The reagent strip contains gold colloid-labeled anti-Trichophyton mouse monoclonal antibody in the dry state, and the judgment strip contains anti-Trichophyton mouse monoclonal antibody in the dry state affixed on the test line zone and the dye in the dry state affixed on the control line zone.

This dye is a colorless dye at a pH of 3 that turns pink at a pH of approximately 4 or higher, and allows the user to confirm that a sample has correctly passed through the test line zone.

From sample to result

A sample that has infiltrated the sample pad (hereinafter called, "the extracted sample") moves to the reagent strip, on which a Trichophyton-derived antigen in the extracted sample binds to a gold colloid-labeled anti-Trichophyton mouse monoclonal antibody to form an immune complex.

While proceeding through the judgment strip, the immune complex is captured by the anti-Trichophyton mouse monoclonal antibody affixed on the test line zone, resulting in the appearance of a purple line of gold colloid (in case it is positive).

If the sample does not contain Trichophyton-derived antigen, no immune complexes are formed and the sample containing unbound gold colloid-labeled anti-Trichophyton mouse monoclonal antibody passes over the test line zone without producing a visible band on the test line zone.

The extracted sample containing unused gold colloid labeled anti-Trichophyton mouse monoclonal antibodies, whether it is Trichophyton-derived antigen positive or negative, passes through the test line zone and reaches the control line zone, where the extracted sample reacts with immobilised dye, resulting in the appearance of a pink band.

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Diafactory Research

Click the links below to access research papers on Diafactory®:

Color and the second se	DERMATOLOGY
doi: 10.1111/1346-8138.13348	Journal of Dermatology 2016; 43: 1417-142
ORIGINAL ARTICLE	
Clinical study of Dermatophyte	Test Strip, an
immunochromatographic meth	od, to detect tinea unguium
dermatophytes	
Yuichiro TSUNEMI 1 Masataro HIRUMA2	
¹ Department of Dematology, Tokyo Women's Medical University, ² Tokyo, Japan	² Ochanomizu Institute for Medical Mysology and Allergology,
ABSTRACT	
201 of 222 (90.5%) specimens but not in 21 of 222 (9.5%) detacted in 170 of 222 (76.6%) specimens but not in 52 t tent results between the two methods, PCR gave furthe were positive and three (7.5%) were negative for derma drane rate and reveal concordinance rate helwaon th	a) specimens. With direct microscopy, dematophytes was of 222 (23.4%). Of the 45 specimens that showed incomis results for 40 specimens, of which 37 (92.5%) specimer tophytes. The positive concordance rate, negative conco- perantecherba, Taxt 24 febr, and direct microscoper uni- ties.
61.5%, 60.7% and 70.7%, respectively. When inconsists rates were 92.5%, 7.4% and 95.0%, respectively. When no piace for the PCR test was left were excluded for respectively. The present results indicate good detecti- phyte Test Strip provides a reliable, convenient and quic Key work: dermatophytes, immunochromatogr Trichophytes.	nrt results weite corrected uning the result of PCR, these Ince specimenes that could not be tasked by PCR backar om arabysis, these rates were \$0.0%, 78.9%, and 97.2% on capacity of the Dormatophyte rest Strip. The Dermit ck method to test for tinea unguiarn. raphy, immunological diagnosis, tinea unguiarn
B.15. (gr.7): and 25.7): repetitionly. When its results for the start of the first starter of the start of the starter of t	and match stress corrected using the results of PCM bases of the source of the stress of the PCM bases of the source of the stress of the PCM bases of the source of the stress of the PCM bases of the source of the stress of the PCM bases of the
Bits", GRNS, and P.S.W., respectively. When seconds in the second of the	In such sense corrected using the results of PCM beam of sequences. Which can be based by PCM beam of the sequences of the second sequences of PCM beam of the sequences of the second sequences of PCM beam of the second sequences of the second sequences of the second sequences of the second sequences of the second sequences of the second sequences of the second sequences of the second sequences of the second sequences of the second sequences of the second sequences of the second sequences of the second second sequences of the second sequences of the second sequences of the second sequences of the second sequences of the second sequences of the second sequences of the second second sequences of the second sequences of the second second second second second sequences of the second seco

Clinical study of Dermatophyte Test Strip, an immunochromatographic method, to detect tinea unguium dermatophytes



Development of a New Dermatophyte Detection Device using Immunochromatography



Screening for tinea unguium by Dermatophyte Test Strip



British Association of Dermatologists' guidelines for the management of onychomycosis 2014



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