

REVINTO

DAND-X[®] Lotion

Tuff on dandruff, gentle on scalp

Effective against

Malassezia furfur

MIC: 31.25 µg/ml

Low MIC

(Minimum Inhibitory Concentration)
of 31.25 µg/ml against

**Malassezia furfur, proving high efficacy
at low dosage.**



Broad-spectrum

antifungal

active against

Candida albicans

Safe, non-irritating

for
long-term scalp
use

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In Vitro Evaluation of Anti-Dandruff Activity of Dand-X Lotion Against *Candida albicans* and *Malassezia furfur*

Investigator

Dr. Ashok Godavarthi, Ph.D – Study Director, Radiant Research Services Pvt. Ltd, Bangalore. Mr. Pavan Kumar B, M.Sc (Ph.D) – Study Coordinator. Mr. Mithun P.R, M.Sc – Study Scientist. **Study Report PR 003-14.**

Abstract:

This study evaluates the anti-dandruff efficacy of Dand-X lotion, against *Candida albicans* and *Malassezia furfur* using the tube dilution method. The Minimum Inhibitory Concentration (MIC) was determined to assess the inhibitory potential. Results show significant antifungal activity, especially against *Malassezia furfur* with a MIC of 31.25 µg/ml for both products.

Keywords:

Anti-dandruff, MIC, *Candida albicans*, *Malassezia furfur*, Dand-X lotion, tube dilution

Objective

To determine the Minimum Inhibitory Concentration (MIC) of Dand-X active oil and Dand-X lotion against *Candida albicans* and *Malassezia furfur* using the broth dilution method.

Materials and Methods

Test Facility:

Radiant Research Services Pvt. Ltd., Bangalore

Test Method:

Tube dilution method based on the procedure outlined by Gibbons et al., 2002.

Test Microorganisms:

- *Candida albicans*
- *Malassezia furfur*

Test Products:

Dand-X lotion (Rr2182)

Dilution

15.125 – 1000 µg/ml

Incubation:

- 28°C for 48 hours
- Visual turbidity inspection used to identify MIC

EXPERIMENTS

Anti-Dandruff activity of test substances against *Candida albicans* and *Malassezia furfur* (Gibbons et al.,2002)

Table 1 – MIC against *C. albicans* by tube dilution method

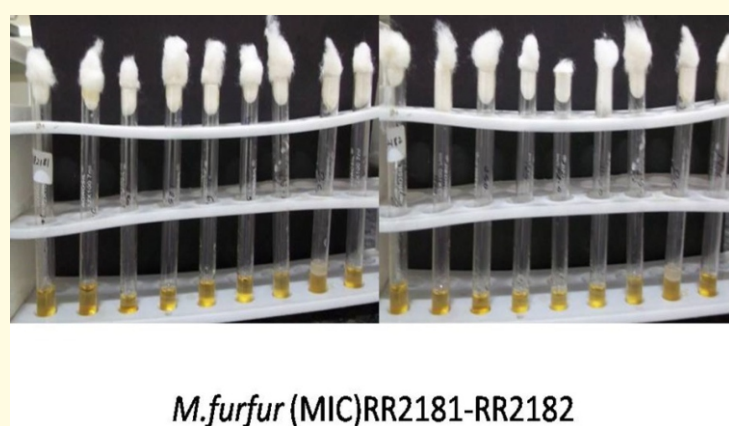
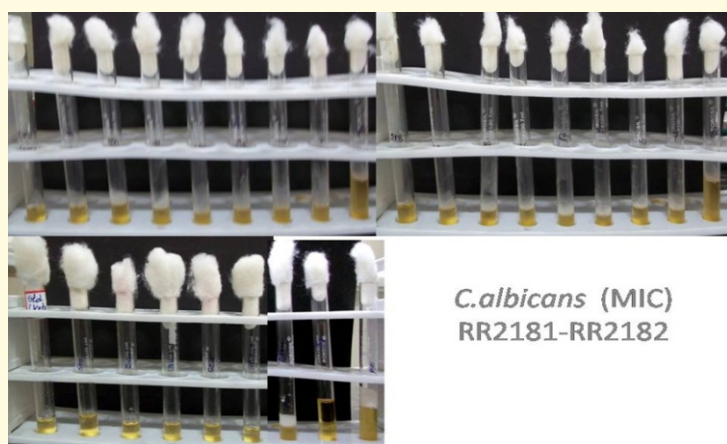
Sl.No	Test sample	Sample name	MIC ($\mu\text{g/ml}$)
1.	Rr2182	Dand-X lotion	1000

Table 2 –MIC against *M. furfur* by tube dilution method

Sl.No	Test sample	Sample name	MIC ($\mu\text{g/ml}$)
1.	Rr2182	Dand-X lotion	31.25

MIC Comparison Chart

	<i>Candida albicans</i>	<i>Malassezia furfur</i>
DAND - X LOTION	1000 $\mu\text{g/ml}$	31.25 $\mu\text{g/ml}$



Results

The test substances showed potent activity against *M. furfur* when compared to *C. albicans*. The MIC of the test substances against *C. albicans* was found to be 1000 $\mu\text{g/ml}$ (Table No.1), where as MIC of test a substance against *M. furfur* was found to be 31.25 $\mu\text{g/ml}$ (Table No.2).

Conclusion

The in vitro studies affirm that Dand-X lotion are effective anti-dandruff agents, with superior activity against *Malassezia furfur*.

References

Gibbons S, Birgit O, Jhonsen I. (2002). The genus *Hypericum* – A valuable resource of Anti-Staphylococcal leads, *Fitoterapia*, 73: 300–304.

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BEFORE

AFTER

Each 100ml contains: Gunja Taila- 10%w/w, Bhringaraj Taila- 10%w/w, Acacia Catechu Bark- 0.6%w/w, Azadirachta Indica Bark- 0.6%w/w, Syzygium Cumini Bark- 0.6%w/w, Holarrhena Antidysenterica Leaves- 0.6%w/w, Glycyrrhiza Glabra Roots- 0.6%w/w, Phaseolus Mungo Seed- 0.6%w/w, Mangifera Indica Seed- 0.6%w/w, Terminalia Chebula Fruit Pulp- 0.6%w/w, Rock Salt- 0.6%w/w.

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Plot No. 21, K. I. A. D. B.
Industrial Area, Shirwad, Karwar
581 306, Karnataka (India).