

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use CANDIN® safely and effectively. See full prescribing information for CANDIN®.

Candida albicans Skin Test Antigen For Cellular Hypersensitivity CANDIN® intradermal injection

Nielsen BioSciences, Inc.

Mfg. by AllerMed Laboratories, Inc.

Initial U.S. Approval: 1995

WARNING

See full prescribing information for complete boxed warning.

- The expected response to CANDIN® is a local area of inflammation at the site of the skin test. The reaction is usually dime to quarter size reaching maximum diameter between 24 and 48 hours. Larger accelerated reactions can occur, which may require treatment with local cold compresses and anti-inflammatory medication. (2.3, 6.1)
- Systemic reactions can occur with skin test antigens and in certain individuals these reactions may be life-threatening or cause death. Emergency measures and personnel trained in their use should be immediately available. Patients should be observed for at least 20 minutes following the administration of a skin test. (6.2)
- CANDIN® should never be given intravenously. (5)
- To report SUSPECTED ADVERSE REACTIONS contact Nielsen BioSciences, Inc. at (855) 855-1212 or MEDWATCH, Food and Drug Administration, 5600 Fishers Lane, Rockville, MD 20852-9782. Telephone (800) 332-1088 or www.vaers.hhs.gov. (6.3)

RECENT MAJOR CHANGES

INDICATIONS AND USAGE

- CANDIN® is a skin test antigen to assess cellular hypersensitivity to *Candida albicans*.
- The product should not be used to diagnose or treat Type 1 allergy to *Candida albicans*.

DOSAGE AND ADMINISTRATION

- CANDIN® skin test dose is 0.1 mL administered intradermally. (2.1)

DOSAGE FORMS AND STRENGTHS

- CANDIN® is a solution for intradermal injection supplied in a 1 mL multi-dose vial. (3.1)
- The skin-test strength of CANDIN® has been determined from dose-response studies in healthy adults. The product is intended to elicit an induration response ≥ 5 mm in immunologically competent persons with cellular hypersensitivity to the antigen (see DOSAGE AND ADMINISTRATION). (3.2)

CONTRAINDICATIONS

- CANDIN® should not be used after a previous unacceptable adverse reaction to this antigen or to a similar product, i.e., extreme hypersensitivity/allergy. (4.0)

WARNINGS AND PRECAUTIONS

- The antigen must be injected intradermally. Do not inject intravenously. (5.1)
- As has been observed with unstandardized antigens used for DTH skin testing, it is possible that some patients may have exquisite immediate hypersensitivity to CANDIN®. (5.2)
- Physicians using this product must have facilities, equipment and medication necessary to treat potential side effects. Epinephrine and oxygen must be immediately available in the event of a serious systemic response. (5.3)

ADVERSE REACTIONS

- Immediate hypersensitivity local reactions can include itching, swelling, pain and blistering at the test site occurring 15-20 minutes after administration. Necrosis is possible. (6.1)
- Systemic reactions to CANDIN® have not been observed, however all foreign antigens have the remote possibility of causing Type I anaphylaxis and even death when injected intradermally. (6.2)

- To report SUSPECTED ADVERSE REACTIONS contact Nielsen BioSciences, Inc. at (855) 855-1212 or MEDWATCH, Food and Drug Administration, 5600 Fishers Lane, Rockville, MD 20852-9782. Telephone (800) 332-1088 or www.vaers.hhs.gov. (6.3)

DRUG INTERACTIONS

- Corticosteroids and immunosuppressive drugs
- Beta-blocking drugs. (7.0)

USE IN SPECIFIC POPULATIONS

Pregnancy Category C

- Use in pediatric populations has not been established.
- Geriatric populations may have a diminished response to the skin test. (8.5)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: July 2017

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FULL PRESCRIBING INFORMATION:

Candida albicans Skin Test Antigen For Cellular Hypersensitivity - CANDIN® - Intradermal Injection

Nielsen BioSciences, Inc.

Manufactured by AllerMed Laboratories, Inc.

WARNING

See full prescribing information for complete boxed warning.

- CANDIN® is intended for use by physicians who are experienced in the intradermal administration of a skin test antigen.
- The expected response to CANDIN® is a local area of inflammation at the site of the skin test. The size of reaction depends upon the sensitivity of the person receiving the test, but is usually dime to quarter size reaching maximum diameter between 24 and 48 hours. Larger accelerated reactions can occur which may require treatment with local cold compresses and anti-inflammatory medication. (2.3, 6.1)
- Systemic reactions can occur with skin test antigens and in certain individuals these reactions may be life-threatening or cause death. Patients should be observed for at least 20 minutes following the administration of a skin test. Emergency measures as well as personnel trained in their use should be immediately available in the event of a life-threatening reaction. (6.2)
- CANDIN® should never be given intravenously. See also Warnings and Precautions. (5)
- Serious adverse reactions to CANDIN® should be reported to Nielsen BioSciences, Inc. at (855) 855-1212 or MEDWATCH, Food and Drug Administration, 5600 Fishers Lane, Rockville, MD 20852-9782. Telephone: (800) 332-1088 or www.vaers.hhs.gov. (6.3)

1 INDICATIONS AND USAGE

CANDIN® is indicated for use as a recall antigen for detecting cell-mediated hypersensitivity by intracutaneous (intradermal) testing. The product may be useful in evaluating the cellular immune response in patients suspected of having reduced cellular hypersensitivity. Because some persons with normal cellular immunity are not hypersensitive to *Candida*, a response rate less than 100% to the antigen is to be expected in normal individuals. Therefore, the concurrent use of other licensed cell-mediated hypersensitivity skin test antigens is recommended. The product should not be used to diagnose or treat Type 1 allergy to *Candida albicans*.

The potency of CANDIN® is measured by DTH skin tests in humans. The procedure involves concurrent (side-by-side) testing of production lots with an Internal Reference (IR), using sensitive adults who have been previously screened and qualified to serve as test subjects. The induration response at 48 hours elicited by 0.1 mL of a production lot is measured and compared to the response elicited by 0.1 mL of the IR. The test is satisfactory if the potency of the production lot does not differ more than $\pm 20\%$ from the potency of the IR, when analyzed by the paired t-test (two-tailed) at a p value of 0.05.

The potency of the IR is monitored by DTH skin testing. Persons included in the potency assay are qualified as test subjects by receiving four skin tests with the IR from which a mean induration response (mm) is calculated. Current skin tests with the IR must show that the potency of the IR has not changed more than $\pm 20\%$ from the mean qualifying response in the same test subjects, when analyzed by the paired t-test (two-tailed) at a p value of 0.05. The required induration response at 48 hours to the IR is $15 \text{ mm} \pm 20\%$.

2 DOSAGE AND ADMINISTRATION

2.1 Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. If particles or discoloration are observed, the product should not be used and it should be discarded.

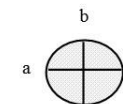
2.2 CANDIN® should be administered intradermally on the volar surface of the forearm or on the outer aspect of the upper arm. The test dose is 0.1 mL. The skin should be cleansed with 70% alcohol before applying the skin test. The intradermal injection must be given as superficially as possible causing a distinct, sharply defined bleb. An unreliable reaction may result if the product is injected subcutaneously. A positive DTH reaction to CANDIN® consists of induration ≥ 5 mm.

2.3 The time required for the induration response to reach maximum intensity varies with the individual. The reaction usually begins within 24 hours and peaks between 24 and 48 hours. The skin test should be

read at 48 hours by visually inspecting the test site and palpating the indurated area. Measurements should be made across two diameters as shown in the figure below. The mean of the longest and midpoint orthogonal diameters of the indurated area should be reported as the DTH response. For example, a reaction that is 10 mm (longest diameter) by 8 mm (midpoint orthogonal diameter) has a sum of 18 mm and a mean of 9 mm. The DTH response is therefore 9 mm.

Area of induration (shaded area)

Longest diameter (a) 10 mm



Orthogonal diameter (b) 8 mm

10 mm + 8 mm = 18 mm (Sum of Induration)

$\frac{18 \text{ mm}}{2} = 9 \text{ mm}$ (Mean of Induration)

3 DOSAGE FORMS AND STRENGTHS

3.1 CANDIN® is a solution for intradermal injection supplied in a 1 mL multi-dose vial.

3.2 The skin-test strength of CANDIN® has been determined from dose-response studies in healthy adults (see CLINICAL STUDIES). The product is intended to elicit an induration response ≥ 5 mm in immunologically competent persons with cellular hypersensitivity to the antigen (see DOSAGE AND ADMINISTRATION).

4 CONTRAINDICATIONS

CANDIN® should not be used after a previous unacceptable adverse reaction to this antigen or to a similar product, i.e., extreme hypersensitivity/allergy.

5 WARNINGS AND PRECAUTIONS

5.1 The antigen must be injected intradermally as superficially as possible, causing a distinct, sharply defined bleb at the skin test site. An unreliable reaction may result if the product is injected subcutaneously. It must not be given intravenously; care should be taken to avoid injection into a blood vessel. A separate sterile syringe and needle should be used for each patient to prevent transmission of infectious agents. Needles should be disposed of properly and should not be recapped.

5.2 It is possible that some patients may have exquisite immediate hypersensitivity to CANDIN®. In persons with bleeding tendency, bruising and non-specific induration may occur due to the trauma of the skin test. As with all skin test antigens, local and systemic allergic reactions can occur following administration.

5.3 Physicians using this product must have facilities, equipment and medication necessary to treat potential side effects. Epinephrine and oxygen must be immediately available in the event of a serious systemic response.

6 ADVERSE REACTIONS

6.1 Local reactions to CANDIN® have included swelling, pruritus and vesiculation. Reactions involving necrosis and ulceration have not been observed, but such reactions are theoretically possible and might occur in persons with exquisite cellular hypersensitivity to the antigen. Local reactions may be treated with a cold compress and topical steroids. Severe local reactions may require additional measures as appropriate.

In a published study of 479 HIV positive adults tested with CANDIN®, adverse local reactions were observed in six subjects as follows: pruritus (three), swelling at the test site (one), vesiculation (one) and vesiculation with weeping edema (one). Pruritus and swelling cleared within 48 hours; vesiculation with edema required approximately 1 week to resolve.⁽⁶⁾

In two studies involving 171 persons discussed under CLINICAL STUDIES in Tables 1, 2, 3, and text, one adverse reaction was observed. This reaction consisted of induration 22 x 55 mm at 48 hours which resolved within 1 week.

Testing of CANDIN® for consistency of potency is performed in healthy human subjects who are known to be skin-test positive to the antigen. In 58 subjects tested to-date, there have been no cases of Type 1 allergy manifested as either generalized or adverse local reactions. One subject had induration with a central vesicle which subsided within a few days.

Severe local reactions, including rash, vesiculation, bullae, dermal exfoliation and cellulitis are possible in highly allergic persons.

6.2 Systemic reactions to CANDIN® have not been observed. However, all foreign antigens have the remote possibility of causing Type I anaphylaxis and even death when injected intradermally.⁽⁷⁾ Systemic reactions usually occur within 30 minutes after the injection of antigen and may include the following symptoms: sneezing, coughing, itching, shortness of breath, abdominal cramps, vomiting, diarrhea, tachycardia, hypotension and respiratory failure in severe cases. Systemic allergic reactions including anaphylaxis must be immediately treated with Epinephrine HCL 1:1,000. Additional measures may be required, depending upon the severity of the reaction.

Immediate Hypersensitivity reactions to CANDIN® occur in some individuals. These reactions are characterized by the presence of an edematous hive surrounded by a zone of erythema. They occur approximately 15 - 20 minutes after the intradermal injection of the antigen. The size of the immediate reaction varies depending upon the sensitivity of the individual. Immediate hypersensitivity reactions were observed in the control and HIV-infected (AIDS and HIV positive) subjects reported in Table 2 as follows: HIV-infected subjects (20% with erythema of 10 - 21 mm in diameter; 13% with erythema of 5 - 9 mm). Control subjects (22% with erythema of 10 - 15 mm; 5% with erythema of 8.5 mm). Cancer subjects (Group 1, Table 3), 17% with erythema of 10 - 24 mm and 11% with erythema of 6 - 9 mm.

6.3 To report SUSPECTED ADVERSE REACTIONS, contact Nielsen BioSciences, Inc. at (855) 855-1212 or MEDWATCH, Food and Drug Administration, 5600 Fishers Lane, Rockville, MD 20852-9782. Telephone (800) 332-1088 or www.vaers.hhs.gov.

7 DRUG INTERACTIONS

7.1 Pharmacologic doses of corticosteroids may variably suppress the DTH skin test response after two weeks of therapy. The mechanism of suppression is believed to involve a decrease in monocytes and lymphocytes, particularly T-cells. The skin test response usually returns to the pretreatment level within several weeks after steroid therapy is discontinued.⁽¹⁾

7.2 Patients receiving beta-blocking drugs may be refractive to the usual dose of epinephrine, in the event that epinephrine is required to control an adverse allergic reaction.⁽¹⁾

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Animal reproduction studies have not been conducted with CANDIN®. It is also not known whether CANDIN® can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. CANDIN® should be given to pregnant women only if clearly needed.

8.2 Labor and Delivery

No information is available to assess the effects of CANDIN® on childbirth.

8.3 Nursing Mothers

It is not known whether CANDIN® is excreted in human milk. Because drugs may be excreted in human milk, caution should be exercised when this product is administered to a nursing woman.

8.4 Pediatric Use

The safety and effectiveness of intradermally administered CANDIN® have not been established in children.

8.5 Geriatric Use

CANDIN® has not been adequately studied in geriatric patients. However, the DTH response to CANDIN® may be diminished in geriatric patients, since the aging process is known to alter cell-mediated immunity.⁽¹⁾

10 OVERDOSAGE

The recommended dose for CANDIN® is 0.1 mL administered intradermally. If a larger dose is administered, or if the dose is accidentally injected intravenously, the potential for a systemic reaction such as anaphylaxis is increased. In this case, Epinephrine HCl at 1:1,000 should be made available immediately as well as oxygen and emergency equipment.

Because individuals differ in their sensitivity to CANDIN®, the response to the recommended dose of 0.1 mL can vary in size and intensity. In highly sensitive persons, the result of overdose, or a mistake in the administration of CANDIN® may result in a more pronounced local or systemic outcome.

11 DESCRIPTION

Candida albicans Skin Test Antigen for Cellular Hypersensitivity (CANDIN®) is a clear, colorless, sterile solution with a pH of 8.0 - 8.5. The antigen should be administered intradermally according to the directions included under DOSAGE AND ADMINISTRATION of this package insert.

CANDIN® is made from the culture filtrate and cells of two strains of *Candida albicans*. The fungi are propagated in a chemically defined medium consisting of inorganic salts, biotin and sucrose. Lyophilized source material is extracted with a solution of 0.25% NaCl, 0.125% NaHCO₃ and 50% v/v glycerol. The concentrated extract is diluted with a solution of 0.5% NaCl, 0.25% NaHCO₃, 0.03% Albumin (Human) USP, 8 ppm polysorbate 80 and 0.4% pheno.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Cellular hypersensitivity or delayed-type hypersensitivity (DTH) can be assessed by intracutaneous testing with bacterial, viral and fungal antigens to which most healthy persons are sensitized. A positive skin test denotes prior antigenic exposure, T-cell competency and an intact inflammatory response.^(1,2) The reaction usually peaks between 24 and 48 hours after antigen is introduced into the skin and is manifest as induration at the test site.

12.2 Pharmacodynamics

The inflammatory response associated with the DTH reaction is characterized by an infiltration of lymphocytes and macrophages at the site of antigen deposition. Specific cell types that appear to play a major role in the DTH response include CD4+ and CD8+ T lymphocytes which leave the recirculating lymphocyte pool in response to exogenous antigen.⁽³⁾ Both CD4+ and CD8+ lymphocytes have been recovered from DTH reactions elicited by *Candida* antigen.⁽⁴⁾

13 NONCLINICAL TOXICOLOGY

Carcinogenesis, Mutagenesis, Impairment of Fertility: Long-term studies in animals have not been conducted with CANDIN® to determine its potential for carcinogenicity, mutagenicity or impairment of fertility.

14 CLINICAL STUDIES

14.1 Response to CANDIN® in Healthy Adults (Table 1).

In one group of 18 subjects, 14 (78%) of the individuals reacted to CANDIN® with an induration response of ≥ 5 mm at 48 hours. In a second study of 35 subjects, 21 (60%) had induration reactions ≥ 5 mm at 48 hours. In this study, 65% of males tested positive compared to 53% of females; the mean induration in responding males was 12.8 mm and in responding females was 13.0 mm.

Table 1. Induration response to CANDIN® in healthy adults.

	n	Age range (years)	Number reactions ≥ 5 mm at 48 hrs	Combined male/female Response
Study 1 (a)				
Male	16	25 - 83	12	78%
Female	2	61 - 69	2	
Study 2				
Male	20	23 - 63	13	60%
Female	15	28 - 62	8	

(a) Control group in Table 2.

14.2 Cellular hypersensitivity response to CANDIN® in adults with AIDS, adults with HIV infection (no-AIDS-indicator conditions) and adult control subjects (Table 2).

Response to CANDIN® in Adults with HIV Infection: In one study (Table 2), the skin test responses of adults with HIV infection were compared to those of healthy control subjects (age range AIDS 22 - 65, HIV positive 20 - 45, Controls 25 - 69). When HIV-infected subjects were classified by the CDC's 1993 revised classification system for HIV infection⁽⁵⁾, a significant difference was found between AIDS patients and normal controls in both mean induration ($p = 0.01$) and proportion with ≥ 5 mm response ($p < 0.01$). The responses in HIV-infected patients (without AIDS-indicating conditions or AIDS-indicating CD4 T-cell counts) were less than in normal subjects, but the differences were not statistically significant.

In a second study involving 20 male patients (age range 26 - 57) diagnosed with AIDS based on clinical criteria only, one subject responded to CANDIN®. In the same study 65% of the male control

subjects had DTH reactions ≥ 5 mm to CANDIN® (Table 1, Study 2). The mean induration response at 48 hours for control subjects was 8.33 mm compared to 1.78 mm for the AIDS subject. AIDS vs. control p -values were < 0.01 mean induration and < 0.01 induration ≥ 5 mm.

Because HIV infection can modify the DTH response to tuberculin, it is advisable to skin test HIV-infected patients at high risk of tuberculosis with antigens in addition to tuberculin.⁽⁶⁾ In a published study of DTH energy, 479 subjects (334 males and 145 females) infected with HIV and being screened for tuberculosis were skin tested with several additional antigens, including CANDIN® supplied under IND to the investigators. Only 12% reacted to tuberculin (≥ 5 mm), 57% reacted to CANDIN® (≥ 3 mm) and 60% reacted to either tuberculin or CANDIN® or both. In this study, a 3 mm induration response to CANDIN® was considered positive. The authors concluded that in HIV-infected subjects, testing with other DTH antigens increases the accuracy of interpretation of negative tuberculin reactions.

Table 2. Cellular hypersensitivity response to CANDIN® in adults with AIDS, adults with HIV infection (no-AIDS-indicator conditions) and adult control subjects. Range and mean of CD4 T-cell count shown in the shaded area of the table.

Group	Classification*	n	Zidovudine Use	CD4 Range	CD4 Mean	Mean Indur. (mm)	n ≥ 5 mm	%
AIDS	A3,B3,C	32	14	4-483	145	3.35(a)	9	28(b)
HIV Pos.	A1,A2, B1,B2	28	13	201-1065	455	5.67	15	54
Control†	-----	18	0	554-1876	869	8.03	14	78

* (reference 5)

(a) $p = 0.01$ compared to Control. (b) $p < 0.01$ compared to Control.

† See Control Group in Table 1.

14.3 Cellular hypersensitivity response to CANDIN® in adults with cancer (Table 3).

In one study of 18 patients with lung cancer, CANDIN® elicited a positive induration response in five patients (28%). In a second series of 20 patients with metastatic cancer, no reactions ≥ 5 mm were observed (Table 3).

Table 3. Cellular Hypersensitivity Response to CANDIN® in adults with Cancer.

	n	Age Range (years)	Number reactions ≥ 5 mm at 48 hours	Response
Study 1	18	52 - 75	5	28%
Study 2	20	47 - 81	0	0%

15 REFERENCES

- Middleton, E. Jr., Reed, C.E., Ellis, F.E., Adkinson, N.F., Jr., Yunginger, J.W., Busse, W.W., Allergy Principles and Practice, 5th Ed., Vol II, pp 685-687, Mosby, St. Louis, 1998.
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7. Klotz, S.D., Sweeney, M.J., Dienst, S., Klotz, L.R., Moeller, R.K., Rosenberg, S., Systemic anaphylaxis immediately following delayed hypersensitivity skin tests. Ann. Allergy, 49: 142-144, 1982.

16 HOW SUPPLIED/STORAGE AND HANDLING

CANDIN® is supplied in a 1 mL multidose vial containing ten 0.1 mL doses.

Storage

Store between 2 - 8°C. Do not freeze.

17 PATIENT COUNSELING INFORMATION

Local reactions to CANDIN® can include redness, swelling, pruritus, excoriation and discoloration of the skin. These reactions usually subside within hours or days after administration of the skin test. In some patients, skin discoloration may persist for several weeks. Progression of the DTH reaction to vesiculation, necrosis and ulceration are possible. Patients should be informed that all foreign antigens have the remote possibility of causing Type I anaphylactic reactions that may require the administration of epinephrine and other drugs or emergency procedures and may be life threatening in some cases. Patients should report any serious adverse reactions to their health care provider.

*Sections or subsections omitted from the full prescribing information are not listed.

CA-C Circular Date of Issue: July 2017

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Candida albicans Skin Test Antigen
for Cellular Hypersensitivity
CANDIN®

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