



Spectral.DNC-N®

60 ml NANOXIDIL 5%_o

**FOR TOPICAL USE ONLY.
NOT FOR OPHTHALMIC,
ORAL, OR INTRAVAGINAL USE.**

HIGHLIGHTS

- World's first formulation with Nanoxidil 5%
- A breakthrough innovation from the leader in biotech research
- State-of-the-art efficacy from a topical solution
- Clinically proven to provide powerful support for healthy hair.

DESCRIPTION

Spectral.DNC-N® maintains the delicate hair follicles of the scalp in their healthiest possible state for the production and maintenance of optimal hair at every stage of life.

Spectral.DNC-N is the first treatment to employ Nanoxidil 5%, a new material developed to improve upon the performance of minoxidil. It is combined with Aminexil® adenosine, procyanidin B-2, citrulline, copper peptides, T-flavanone, and additional hair-support agents.

A product of cutting-edge research, the formula incorporates only the active ingredients proven most effective via clinical trials. It establishes the highest possible efficacy from a topical application within the complex biology of the scalp, combining beneficial molecules in a way that potentiates desirable properties and mitigates undesirable side effects.

DS Laboratories is today's leader in the biotechnical science of hair, researching its pathology in great depth. Attention is focused on compounds that affect four factors of the hair-growth cycle: epithelial cells, the peripheral nervous sys-

tem, the immune system, and the vascular system.

Equal attention is paid to absorption characteristics, as some compounds have beneficial effects at certain locations within the scalp, such as the dermal papilla at the base of the follicles, but no effect at other locations, like the surface.

To optimize delivery, this formula employs tiny microspheres called Nanosomes, which encapsulate active molecules in solution. These compounds enhance the actions of each ingredient, resulting in improved efficacy and a more global approach to successful treatment.

Another important aspect of DS Laboratories' research is to ensure that the efficacy of a formulation does not drop off over time, as commonly happens with topical therapies.

This formula contains compounds evaluated in clinical trials and optimized with data collected from human volunteers over five years. Materials that did not show efficacy in double-blind placebo-controlled trials were rejected.

In summary, Spectral.DNC-N is a powerful weapon in the fight against thinning or shedding hair. It offers several unique advantages. It works faster and better than other generic solutions, with similar tolerability and side effects. It allows patients to maintain normally thick and healthy hair and may work for patients who did not respond well to the standard minoxidil therapies.

This treatment is intended both for the vertex (crown) of the scalp and for the frontal hairline. Its net result is to combat thinning and

restore normalcy in a highly effective manner.

CLINICAL PHARMACOLOGY

When applied topically, Nanoxidil is believed to stimulate hair follicles on the vertex of the scalp, although the compound is relatively new and the exact mechanism of action is not fully understood.

Ways in which Nanoxidil may work include 1) stimulation of follicular cells into the proliferative period of the hair cycle (anagen phase), 2) stimulation of resting follicles (telogen phase) into anagen phase, and 3) inhibition of androgen metabolism and its capacity to affect hair follicles.

Other compounds used in this formulation have shown in various studies to open ion channels within cells, suppress dihydrotestosterone (DHT), prevent perifollicular fibrosis, provide antioxidant effects, prolong the anagen phase of the hair follicle, increase expression of vascular endothelial growth factor, selectively suppress protein-kinase-C (PKC) isozymes, and block chronic inflammation.

These compounds may also exert beneficial effects on processes that are not fully understood. The use of Nanosomes helps to enhance significantly the deposition of these substances into the skin and to prolong their action.

GENERAL

- As with all topical solutions for thinning hair, it is important to start early, since the technology works by revitalizing hair follicles that have been dormant. They may not respond as vigorously after many years.
- Spectral.DNC-N does not prevent or reverse shedding that occurs from hypothyroidism, chemotherapy, diseases that cause scarring of the scalp, or the use of some medications.
- For best results, apply treatment directly to the scalp twice per day, every day, without skipping applications.
- Spectral.DNC-N may cause irritation. If it continues or worsens, stop using the product and consult your physician.

■ Results may appear in as little as two months, although most people require three months or more, since normal hair grows at a rate of 1–1.5 cm per month.

■ When beginning treatment with Spectral.DNC-N, increased shedding of old hairs to prepare for new hairs may last up to two weeks. If it continues longer, discontinue use and consult your physician.

■ If your thinning or shedding is due to heredity, then continued use of Spectral.DNC-N is necessary. If thinning is due to other factors, then it may be possible to discontinue treatment and maintain your hair.

■ To prevent unwanted facial hair, allow Spectral.DNC-N to dry before bed to avoid smearing.

■ Two times per day, apply 1 ml (10 sprays) with the applicator directly to the areas of thinning or shedding. Using less would reduce the effectiveness.

■ If you miss an application, do not try to make up for it by applying more later. Just return to your normal schedule.

■ Spectral.DNC-N should not be used by people under 18 years of age.

DIRECTIONS FOR USE

Apply 10 sprays twice per day directly in the area of hair loss or thinning. Rub the liquid evenly over the entire area and wash your hands with soap and water immediately after use. Do not rinse. Spectral.DNC-N should be applied whether your hair has been washed or not.

CONSISTENT TREATMENT

Spectral.DNC-N must be used as directed without interruption. A sudden interruption or pause for a few days can cause extensive shedding and loss of progress.

DS Laboratories recommends that Spectral.DNC-N be made a regular part of your daily hair-care routine and that careful plans be made to ensure an adequate supply during travel.

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CONTRAINDICATIONS

This formula is contraindicated in individuals with a history of sensitivity reactions to any of its components. It should be discontinued if hypersensitivity is noted.

SAFETY INFORMATION

Do not exceed the directed dosage because results would not be any better or more rapid, but chances of side effects would be increased.

Spectral.DNC-N is for topical use only. If irritation develops, discontinue and consult your doctor. For adult use only, this product should not be used by pregnant women. Keep out of reach of children.

Spectral.DNC-N contains Nanosomes that increase absorption. Their use may cause enhanced absorption of other components as well, and this action may increase the chance of side effects from the other products. Exercise caution if combining.

QUESTIONS AND ANSWERS

Q: Is Spectral.DNC-N safe?

A: Spectral.DNC-N contains herbal extracts and vitamins known for their safety in topical use. Active components have been tested through numerous clinical studies and shown to be safe.

Q: Can I use hair sprays, mousses, gels, etc.?

A: Hair sprays, gels, and other styling aids are not recommended since they tend to clog hair follicles. If using styling aids, apply Spectral.DNC-N first and wait for it to dry completely.

Q: Can I color or perm my hair while using Spectral.DNC-N?

A: While there is no clear evidence that coloring, perming, or using hair relaxers affects hair loss, it is not recommended. If you use such treatments, they will not interfere with Spectral.DNC-N.

Q: Is stress a factor in hair loss?

A: When the body is under physical or emotional stress, it is possible the immune system will produce antibodies that attack hair follicles, resulting in bald patches or diffuse loss.

Q: Can I go swimming or get my hair wet?

A: You should avoid rinsing hair for at least three hours after the product has been applied. If you plan on swimming, it is recommended to reapply the product immediately after, on dry scalp, or wait at least three hours to swim.

Q: Does the treatment reduce sex drive?

A: No, unlike oral drug treatments such as finasteride, which may come with sexual side effects, Spectral.DNC-N is not shown to affect sex drive.

Q: What should I do if I see flakes?

A: Roughly five percent of users notice flaking or irritation with the product. Because it contains retinol, flaking may mean increased cell turnover. If irritation persists after several weeks, you may wish to discontinue use.

Q: What is the role of dihydrotestosterone?

A: Dihydrotestosterone (DHT) is believed to be a primary cause

of male pattern baldness. DHT is formed from testosterone when the male hormone comes into contact with the sebaceous glands. It tends to shrink hair follicles and thicken the scalp, thus restricting blood flow to the capillaries.

Q: Can I blow dry my hair after using Spectral.DNC-N?

A: Optimally, you would apply Spectral.DNC-N after blow drying, since drying can cause some of the solution to evaporate, thus is not recommended.

Q: What type of results should I expect?

A: You should begin to arrest hair thinning in about two weeks and start to see significant results within three months. If you have small patches of falling hair, you should notice results quickly. In advanced stages of shedding, it can take up to six months for results to appear.

Q: Who is the ideal candidate for Spectral.DNC-N?

A: The ideal candidate for Spectral.DNC-N is someone in the beginning stages of hair thinning or shedding, which are easier to prevent than they are to reverse. If there has been a large patch of visible scalp for more than 15 years, Spectral.DNC-N may not work well.

Q: Can I skip a treatment or two of Spectral.DNC-N?

A: Consistency of treatment is strongly recommended, but if you do miss an application, do not increase your next dose to compensate. Simply continue with your normal schedule.

Q: How long can I suspend use without losing hair?

A: Once you achieve the desired results, it is possible to interrupt treatment for one to two weeks without inducing a new round of hair shedding. However, it is best to use Spectral.DNC-N continuously to maintain strong, healthy-looking hair.

Q: What is Nanosome encapsulation technology?

A: DS Laboratories' Nanosome technology encapsulates active ingredients within microscopic liposomes hundreds of times smaller than human skin cells. These Nanosomes, formed from material similar to natural skin, can be absorbed deeper into epidermal tissues. This process boosts the effectiveness of the ingredients. By vectoring active compounds in this way, they can have the efficacy of a stronger solution, providing state-of-the-art technology for great results.

Q: What kind of shampoo should I use?

A: To optimize your results, be sure to wash hair with a high-quality shampoo containing no sodium lauryl sulfate or sodium laureth sulfate, which are cheap detergents used in products often linked to skin irritation, drying, and damage. It is important to maintain a healthy scalp if you are concerned about hair. Dandruff, grease, or bacterial build-up on the scalp has been linked to hair loss.

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