



## SPECTRAL.DNC®

BREAKTHROUGH HAIR LOSS TREATMENT

60 ml

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

#### DESCRIPTION:

Spectral DNC® is a medication containing 5% Minoxidil and Aminexil SP94. This formulation uses tiny micro spheres called nanosomes that are used to encapsulate the active ingredients in a lotion compound. Other compounds are used to enhance the action of Minoxidil and Aminexil; these compounds are Retinol, Tricosolan, and Piroctone Olamine. Other components of this formulation are purified water, Ivy nanosomes, Hops nanosomes, Capsicum nanosomes, Ethanol, Vitamin and Mineral Complex, Propylene glycol, and Methyl Paraben.

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The addition of Procyanidin B-1 and C-2 and Adenosine nanosomes to this formulation is a recent modification and has allowed a further enhancement of effectiveness and rapidness of results.

Spectral DNC® is the newest compound developed in the fight against hair loss and has several unique advantages over other hair loss medications. Spectral DNC® works faster and better than medications containing only Minoxidil with similar tolerability and side effects. Spectral DNC® allows patients to re-grow normally thick and healthy hair and may work for patients who previously did not respond to Minoxidil treatment. This medication is intended for both the crown of the scalp and frontal baldness (receding hairline).

#### CLINICAL PHARMACOLOGY:

When applied topically, Minoxidil topical solution has been shown to stimulate hair growth in individuals with alopecia androgenetica (male pattern baldness) and hair loss occurring on the crown of the scalp. Although the exact mechanism of action of Minoxidil in the treatment of alopecia androgenetica is not known, there may be more than one mechanism by which Minoxidil stimulates hair growth; they include: direct stimulation of the hair follicle cells to enter into a proliferative phase: resting phase (telogen) follicles being stimulated to pass into active phase (anagen) follicles; alteration of the effect of androgens on genetically predetermined hair follicles. Minoxidil may affect the androgen metabolism in the scalp by inhibiting the capacity of androgens to affect the hair follicles. Following topical application of Minoxidil topical solution, Minoxidil is poorly absorbed from normal intact skin, with an average of 1.4% (range 0.3 to 4.5%) of the total applied dose reaching the systemic circulation. The use of nanosomes as the carrier agent in Spectral DNC® increases the absorption and effectiveness of Minoxidil.

Aminexil has been shown to increase hair density and hair growth by preventing perifollicular fibrosis. Perifollicular Fibrosis is a condition that accompanies all alopecia whereby the collagen around the hair root becomes rigid and tightens, pushing the root to the surface and causing premature hair loss. The use of nanosomes as the carrier agent in Spectral DNC® increases the absorption and effectiveness of Aminexil.

#### CONTRAINDICATIONS:

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

#### GENERAL:

- As with all topical hair loss medications, it is important to start treatment early. Since the treatment works by revitalizing hair follicles, follicles that have been dormant for many years will not respond as well as follicles that just recently became compromised.
- Spectral DNC® will not prevent or improve hair loss which may occur with the use of some medications, hypothyroidism, chemotherapy, or diseases which cause scarring of the scalp.
- For best results with Spectral DNC®, apply the medicine directly to the scalp twice a day, every day, without skipping applications.
- In some patients, Spectral DNC® may cause scalp irritation. If scalp irritation continues or worsens stop use and see a doctor.
- Results may occur at 2 months with twice a day usage. For some men, you may need to use this product for at least 3 months before you see results. Hair grows at a rate of 1 – 2 cm per month and therefore it will take time to see results.
- When you first begin to use Spectral DNC® your hair loss may increase temporarily for up to 2 weeks. This temporarily increase in hair loss indicates that you are shedding old hairs to begin growing new hairs. If the increase in hair loss continues after 2 weeks, discontinue use and see your doctor.
- If your hair loss or thinning hair is due to hereditary male pattern baldness, continued use of Spectral DNC® is necessary or the hair loss will begin again. If your hair loss is caused by other factors then it may be possible to completely discontinue treatment and maintain the newly grown hair.
- Allow time for Spectral DNC® to completely dry before bedtime to prevent smearing on the pillow and transferring the medication to the face to prevent unwanted facial hair growth.
- Apply 1 ml (10 sprays) with applicator 2 times a day directly on to the scalp in areas of hair loss and thinning hair. Using less will reduce the effectiveness of the treatment.
- If you miss a dose of Spectral DNC® do not try to make up for it by applying multiple doses the next day. Just return to your normal treatment schedule.
- Spectral DNC® should not be used by people under 18 years of age.

#### WARNINGS:

Spectral DNC contains strong vasodilator compounds increasing the absorption of Minoxidil and some people may experience a higher sensitivity to Minoxidil side effects. You should not use Spectral DNC if you have low blood pressure or are taking blood pressure lowering medications. People with heart failure or significant coronary heart disease should avoid Spectral DNC® because of these side effects.

The most common side effects are redness and irritation of the scalp.

Pregnancy: Spectral DNC® should not be used in pregnancy and by nursing women.

IF YOU EXPERIENCE RAPID HEART BEAT, DIZZINESS OR SHORTNESS OF BREATH DISCONTINUE THE USE OF Spectral DNC® AND SEEK MEDICAL ATTENTION IMMEDIATELY.

Stop use and consult a doctor if sudden unexplained weight gain occurs, your hands or feet swell, or if unwanted facial hair growth occurs.

To prevent unwanted hair growth on other parts of the body make sure that you limit the application of Spectral DNC® only to the scalp, wash your hands with soap and water immediately after use, and allow the lotion to dry completely before going to bed.

#### DIRECTIONS FOR USE:

SHAKE WELL BEFORE USE. Apply 14 sprays directly in the area of hair loss and thinning hair, twice per day. Hold the localized spray close to the scalp to avoid getting the medication on the hair. Massage the lotion into the scalp. Do not rinse.

Wash your hands with soap and water immediately after use. Spectral DNC® should be applied whether your hair has been washed or not.

#### OVERDOSAGE:

If the medication is applied excessively, no more rapid or better results will be obtained and this will increase the chances of side effects.

#### QUESTIONS & ANSWERS:

Q: Is Spectral DNC® safe?  
A: Spectral DNC® contains herbal extracts and vitamins which are known for their safety especially in topical use. The other active ingredients such as Minoxidil and Aminexil have been tested in clinical studies and have been shown safe. Minoxidil has been on the market for nearly 20 years and used by millions of people with extremely low incidence of side effects. You should not use Spectral DNC if you are suffering from low or high blood pressure or have heart problems.

Q: Is a higher concentration of Minoxidil more effective?  
A: Minoxidil has been shown to be more effective at higher doses - Minoxidil 5% has been shown to be more effective than Minoxidil 2%. However, beyond the 5% threshold applying more does not seem to improve the results while the chance of side effects is dramatically increased.

Q: Can I use hair sprays, mousses, gels, etc.?  
A: Hair spray, gel, and other styling aids are not recommended since they tend to clog the hair shaft. However if you insist on using styling aids then you should apply Spectral DNC® first and wait for it to dry completely before applying styling aids.

Q: Can I have my hair colored or permed while using Spectral DNC®?  
A: While there is no evidence that coloring or perming hair or use of hair relaxers can affect hair loss, it is generally not recommended for people with hair loss. If you are experiencing hair loss then perming and coloring hair is not recommended. However, if you insist on using these treatments then they will not interfere with Spectral DNC.

Q: Is stress a factor in hair loss?  
A: When the body is under significant physical and emotional stress it is possible that the immune system will produce anti-bodies that attack hair follicles and this results in bald patches or diffuse loss. Stress-induced loss will respond very well to Spectral DNC® and generally you can discontinue treatment and keep the hair that you grew.

Q: Can I go swimming or get my hair wet?  
A: You should avoid washing off Spectral DNC® after it has been applied. You should avoid washing off Spectral DNC® for at least 3 hours after application. If you plan on swimming it is recommended to apply Spectral DNC® immediately after swimming on dry scalp or wait at least 3 hours after application.

Q: Does the treatment reduce sex drive?  
A: The same opposite is likely true. Unlike oral hair loss treatments such as Propecia, Spectral DNC® will not affect your sex drive. Pfizer has applied to the FDA to use Minoxidil to spray on the penis to improve erection. The other ingredients in Spectral DNC® (Vitamin Complex and Herbal Extracts) can only enhance sexual function. It is not well known how Aminexil can impact sex drive, however, Aminexil has not shown any side effects in clinical studies.

Q: What can I do about the flaking I've noticed since I started using Spectral DNC®?  
A: Occasionally users will notice flaking with Spectral DNC® (only about 5% of users will experience flaking or scalp irritation). Since Spectral DNC® contains Retinol, the flaking may be due to increased skin cell turnover induced by that agent. If irritation persists after several weeks of use then you should discontinue your treatment with Spectral DNC®.

Q: What is DHT?  
A: Dihydrotestosterone (DHT) is believed to be the cause of male pattern baldness. DHT is formed from testosterone when testosterone comes into contact with oil glands in the hair follicles. DHT gets in to the hair follicles and shrinks them. At the same time, it makes the protective membrane of the scalp thicker, restricting blood flow to the capillaries. This gradually causes hair loss.

Q: Can I blow dry my hair after using Spectral DNC®?  
A: You should apply Spectral DNC® after blow drying. Blow drying can cause some of the solution to evaporate and is not recommended.

Q: What type of results should I expect?  
A: You should be able to take control of your hair loss in about 2 weeks and start growing new hair within three months of use. If you have small patches of baldness you should see significant results. It can take up to 6 months of use to see re-growth if you have an advanced stage of hair loss. It is also possible that the treatment will not work at all for users who have been bald for more than 15 years with advanced stages of hair loss.

Q: What side effects are there to using Spectral DNC®?  
A: Most of the side effects in Spectral DNC® are due to the use of Minoxidil 5% and are very similar to side effects reported by users of regular Minoxidil containing medications. In some people this can be a simple irritation, in others it can be an allergic reaction. A small percentage of people experience dizziness and/or shortness of breath. These effects occur because Minoxidil can lower blood pressure.

Q: What should I do if I experience side effects of Spectral DNC®?  
A: If you experience itching and flaking then try applying less Spectral DNC®. You should try to gradually increase until you reach the normal dosage once the flaking or itching goes away. If you experience dizziness or shortness of breath, consult your doctor. Minoxidil can cause your blood pressure to drop and you should have your blood pressure checked to see if you have low blood pressure. You should not use Spectral DNC® if you have low blood pressure.

Q: How effective is Spectral DNC®?  
A: Spectral DNC® is significantly more effective than any other topical hair loss treatment. Many users who did not respond to other medications containing Minoxidil will respond to Spectral DNC® and have a much bigger chance of growing normally thick and healthy hair. You can expect dramatic results from your Spectral DNC® treatment.

Q: Who is the ideal candidate for Spectral DNC®?  
A: The ideal Spectral DNC® candidate is someone with little hair loss or at the beginning stages of hair loss. It is much easier to prevent hair loss than to grow new hair. If you have a large bald spot for longer than 15 years then Spectral DNC® may not work.

Q: What can I reasonably expect from Spectral DNC®?  
A: When deciding to use Spectral DNC® it is important to have realistic expectations. Hair grows at a rate of approximately 1 – 2 cm per month and you will not see immediate hair growth. In fact, during the first 2 weeks of treatment you may actually notice increased hair loss as old hairs are being pushed out and the hair follicles start growing new hair. Do not become alarmed with this and just stick to the treatment.

Q: When should I expect to see results from Spectral DNC®?  
A: The response to treatment is different for every individual. However, you can expect to completely inhibit hair loss within just 2-3 weeks of use and start seeing new hairs after approximately 2 months of use. You will at first see "fuzz" hairs that are light in color, these hairs will eventually become normal hair. Full hairs may be seen to grow as early as 4 months into treatment, although the full effect is usually achieved between 8 and 12 months. After that point, as long as Spectral DNC® is used properly the hair can usually be maintained indefinitely.

Q: Can I use Spectral DNC® once per day instead of twice?  
A: For Spectral DNC® to be used effectively, it must be used twice per day, preferably morning and before bedtime. Some people find that after a year or two they can use Spectral DNC® only once a day to maintain what they have.

Q: Can I skip a treatment or two of Spectral DNC®?  
A: Yes. You can occasionally skip treatments for one or several days without reducing effectiveness. If you miss an application, do not increase your dose the next day to make up for it. Simply continue with the normal treatment schedule.

Q: How long can I stop using Spectral DNC® without losing hair?  
A: Once you restore normal hair growth, it is possible to interrupt the treatment for 1 - 2 weeks at a time without shedding. However, it is best to continuously use Spectral DNC® to maintain normally strong and healthy hair.

Q: What is DS Laboratories nanosome technology?  
A: DS Laboratories nanosome technology encapsulates the active ingredients in microcapsules that are hundreds of times smaller than human cells. The outer layer of the microcapsules is formed from a material similar to the skin. These microcapsules reach much deeper into the epidermis tissue than standard carrier agents and therefore boost the effectiveness of all active ingredients.

Q: What shampoo should I use?  
A: We recommend using Nizoral AD shampoo several times per week to further boost your results with Spectral DNC®, especially if you are suffering from dandruff or seborrheic dermatitis has been shown to play a role in hair loss. If you do not have dandruff then you should just use a mild shampoo like Johnson & Johnson baby shampoo. It is best to wash your hair every day to keep the scalp clean at all times.

Q: Does Spectral DNC® work on a receding hair line or is it only effective on the crown of the scalp?  
A: Unlike other topical treatments, Spectral DNC® can help re-grow hair on the frontal hair line as well as on the crown. Most users are able to re-grow and maintain normally strong and healthy hair on the entire scalp.

Q: What is the difference between Rogaine®\* and Spectral DNC®?  
A: Rogaine® is a 5% Minoxidil solution approved by the FDA as a treatment for hair loss. Rogaine® does not contain any other active ingredients. Spectral DNC® uses the highest quality research grade Minoxidil combined with Aminexil - the only other compound clinically proven to re-grow hair. Spectral DNC® also contains Retinol, a Vitamin & Mineral complex, and highest purity herbal extracts. All the active ingredients are encapsulated in DS Laboratories nanosomes. In short, Spectral DNC® is significantly more effective and provides rapid and dramatic results even in users who did not respond to Rogaine®. Spectral DNC® is the world's most effective topical hair loss treatment medication.

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\*Rogaine® is a registered trademark of Pfizer, Inc.