

Euphorbium Compositum Nasal Spray

A safe and effective alternative to
conventional nasal sprays



Safe and effective for :



- *Rhinitis of various origins*
- *Sinusitis*
- *Chronic nasal discharge*
- *Dry and inflamed nasal membranes*
- *Cold and flu nasal symptoms*
- *Nasal congestion*

-Heel®

Biologische Heilmittel Heel GmbH
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Euphorbium Compositum Nasal Spray

Over 40 years of worldwide
therapeutic use by:

- ENT Doctors
- Pediatricians
- General Practitioners
- Homeopaths
- Naturopaths

Pharmacological aspects

Anti-inflammatory properties:

An *in vitro* study on whole blood cell cultures has demonstrated that each of the ingredients in Euphorbium Compositum Nasal Spray influence, in varying degrees, the release of important inflammatory mediators from monocytes / macrophages and lymphocytes (IFN- γ , IL-10, TNF- α)¹.

Antiviral properties:

Euphorbium Compositum Nasal Spray also showed direct virustatic effects in *in vitro* studies using human cell cultures. When compared to normal saline solution, dilutions of Euphorbium Comp. Nasal Spray were found to inhibit four different types of pathogens causing various viral infections (RSV, HSV-1, Influenza A virus and HRV)²⁻³.

Pharmacological description

Euphorbium Comp. improves damaged nasal mucosa and nasal congestion associated with rhinitis sicca and rhinitis medicamentosa.

Euphorbium Comp. has an excellent tolerability; no adverse reactions were reported worldwide for millions of bottles sold annually.

Euphorbium Comp. creates no rebound effect, no tachyphylaxis nor any burning sensation.

Euphorbium Comp. is without any known side effects, even with long-term use.

Euphorbium Comp. has a metered dose pump spray without propellant and an isotonic sodium chloride solution base that prevents desiccation and promotes cleansing of the nasal mucosa.

Euphorbium Comp. is suitable for children and infants as well as pregnant and nursing women.

| Ingredient | Pharmacological application |
|---------------------------|--|
| Argentum nitricum | Pharyngitis, laryngitis, hoarseness, conjunctivitis, headache |
| Euphorbium officinarum | Mucosal catarrh of the upper part of the respiratory tract, e.g. rhinitis and sinusitis; catarrh of the ear passages |
| Hepar sulphuris calcareum | Tendency towards suppurations, particularly on the skin and lymph glands, tonsillar abscesses |
| Luffa operculata | Allergic and vasomotor rhinitis, rhinitis atrophicans, sinusitis, hay fever |
| Mercurius iodatus ruber | Angina, particularly viral, acute nasal catarrh, catarrh of the sinuses, suppurations |
| Mucosa nasalis suis | Sinusitis chronica, polysinusitis, ozena, nasal polypi, affections of the sinuses |
| Pulsatilla | Migrating disorders, remedy for affections of the mucosa, thick, mild and greenish yellow discharges; conjunctivitis, rhinitis |
| Sinusitisinum | Acute and chronic suppurations of the sinuses, lymphatism, ozena, hay fever |

References

- ¹ Schmolz M., Metelmann H. Modulation of Cytokine Synthesis in Human Leukocytes by Individual Components of a Combination Homeopathic Nasal Spray. Biomedical Therapy 1999 (2): 61-63, 75.
- ² Metelmann H, Glatthaar-Saalmüller B. Antiviral Action of a Homeopathic Medication. Biomedical Therapy 2000 (1): 160-164.
- ³ Glatthaar-Saalmüller B., Fallier-Becker P. Antiviral Action of Euphorbium Compositum and its components. Research & Complementary and Classical Natural Medicine 2001, Vol. 8 (4): 207-212.



A comparison of treatments (Phytogens/Allopathics/Euphorbium Comp.) for acute and chronic forms of rhinitis and sinusitis

| Example of therapeutic approaches | Adverse side effects and restrictions in use |
|---|--|
| Allopathic Vasoconstrictors and Glucocorticoids | "Rebound-effect", burning sensation and damage to the nasal mucous membranes (chronic congestion) Limited duration of use, not used for dry rhinitis (rhinitis sicca) |
| Phytotherapeutic preparations | Possible symptoms of irritation in the mucous membranes, increased bronchospasma |

Euphorbium Compositum Nasal Spray

Efficacy clinically tested

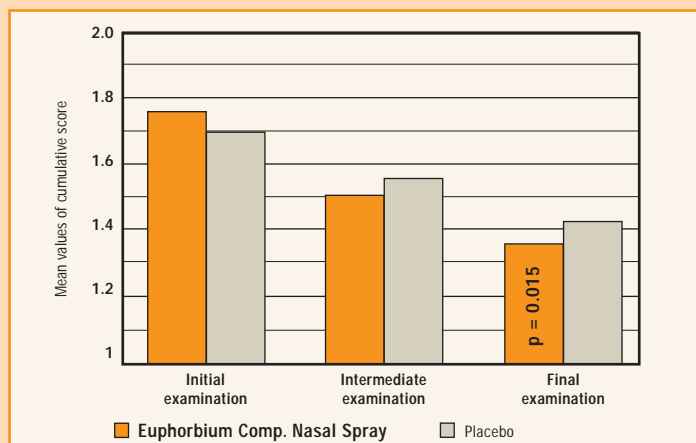
The effectiveness of Euphorbium Compositum Nasal Spray has been systematically investigated for therapy of chronic medicinal and vasomotor rhinopathies.

A total of 26 patients with vasomotor rhinopathy and 26 patients with chronic medicinal rhinopathy whose nasal breathing had been impaired during the preceding six months were treated with Euphorbium Comp. Nasal Spray. To avoid seasonal allergies, treatment was carried out during six winter weeks by spraying the preparation into each nostril daily. Rhinomanometric measurement of airflow resistance during nasal breathing was taken as an objective indicator for change in the obstruction state. In both patient groups, nasal breathing resistance decreased significantly⁴.

The efficacy of Euphorbium Compositum nasal spray was measured against a normal saline solution for the treatment of chronic sinusitis (duration of treatment: 5 months) in a randomized, placebo-controlled, double-blind study⁵.

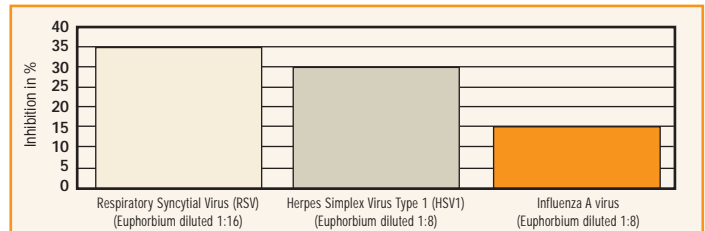
The results of three criteria categories (subjective symptoms, anterior rhinoscopy and ultrasound examinations of the sinus) were summarized to a cumulative score (from 1 = no symptoms/findings in all categories to 2.6 = worst possible symptoms/maximum findings in all categories).

This study demonstrated that Euphorbium Compositum Nasal Spray was significantly superior to placebo with regards to therapeutic efficacy.



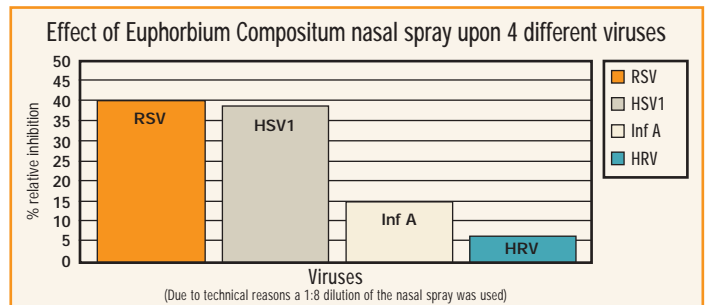
Antiviral properties

In plaque-reduction assays, the effects of Euphorbium Compositum and 3 antiviral drugs - Acyclovir®, Ribavirin® and Amantadine® - (as positive controls) upon typical pathogens causing respiratory tract viral infections were measured. Results showed that dilutions of Euphorbium Compositum inhibited the infectivity of RSV and HSV1 strains by 35% and 30%, respectively, in comparison with the untreated controls, while the effect on Inf A virus was less pronounced (15%)⁶.

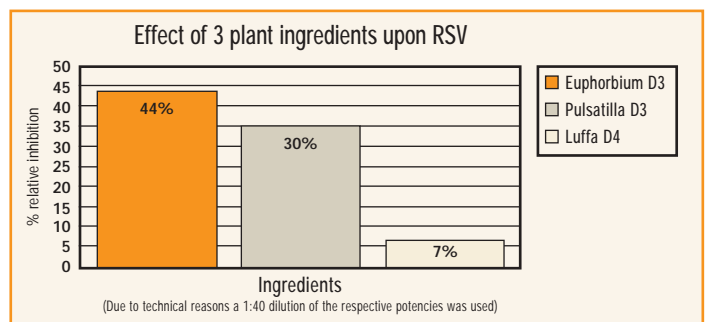


Other plaque-reduction assays were conducted to further investigate the antiviral properties of Euphorbium Compositum Nasal Spray and its individual components upon the following viruses: Influenza A virus (Inf A), Respiratory Syncytial Virus (RSV), Human Rhinovirus (HRV) and Herpes Simplex Virus Type 1 (HSV1).

A 1:8 dilution* of Euphorbium Comp. Nasal Spray showed a pronounced antiviral effect (approximately 40% relative inhibition) upon RSV and HSV1, while the effect upon Inf A and HRV was less pronounced.



Furthermore, the diluted* potencies of the ingredients *Euphorbium*, *Pulsatilla* and *Luffa* were shown to have anti-viral effects to different extent depending on the pathogens tested. The ingredients *Euphorbium officinarum* and *Pulsatilla* showed the strongest inhibition upon RSV (44% and 30% respectively).



* Dilutions were used for technical reasons.

References

- Connert W D, Maiwald J. The Therapy of Rhinopathy as Associated with a Previous Abuse of Nasal Spray and with Vasomotor Influences, Biomedical Therapy 1991 (4): 182-186, 192.
- Weiser M, Clasen B P E: Controlled Double-blind Study of a Homeopathic Sinusitis Medication. Biomedical Therapy 1995 (1): 4-11
- Metelmann H, Glatthaar-Saalmüller B. Antiviral Action of a Homeopathic Medication. Biomedical Therapy 2000 (1): 160-164.



Euphorbium Compositum Nasal Spray

Euphorbium Compositum

Oral Drops / DIN 02227703

Nasal Spray / DIN 01978721

Indications: *Drops:* Chronic sinusitis (maxillary sinus, frontal sinus, ethmoidal sinus, and sphenoid sinus); catarrh of the ear passages, dropsy of the middle ear. *Nasal Spray:* Rhinitis of various origins (viral, bacterial, allergic); rhinitis sicca, rhinitis hyperplastica, atrophicans and medicamentosa for the auxiliary treatment of ozena; chronic sinusitis; to facilitate nasal respiration in hay fever.

Contraindications: *Nasal Spray:* Hypersensitivity to benzalkonium chloride.

Dosage: *Drops:* Adults: In general, 10 drops 3 times daily. In acute cases, initially 10 drops every 15 minutes, followed by a reduction to 10 drops 6 times daily. *Nasal Spray:* Adults: In general, spray once or twice into each nostril 3-5 times daily. **Children and infants:** Spray once in each nostril 3-4 times daily.

Package sizes: *Drops:* Drop bottles containing 30 ml. *Nasal spray:* Metered-dose pump spray without propellant containing 20 ml.

Rhinitis and Sinusitis Protocol

| | |
|--------------------|---|
| | Euphorbium Compositum Nasal Spray |
| Presentation | Metered dose pump spray without propellant (20 ml) |
| Recommended use | Suitable for rhinitis and sinusitis |
| Recommended dosage | Long-term therapy: Adults: Spray once or twice into each nostril, 3-5 times daily Children: Spray once into each nostril, 3-4 times daily |

| | |
|--------------------|--|
| | Euphorbium Compositum |
| Presentation | Drop bottle (30 ml) |
| Recommended use | Suitable for common colds and flu |
| Recommended dosage | Long-term therapy: Adults: Generally 10 drops, 3 times daily Massive dose therapy (acute cases): Adults: Initially 10 drops every 15 minutes (max. 2 hours) followed by a reduction to 10 drops 6 times daily |

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The information contained in this document is meant for professional use only and is not intended to diagnose or treat any illness, nor is intended to replace competent medical advice. Heel® will not accept any medical or legal responsibility for misinterpretation or misuse of the informational and educational content of the present document.

Why should you use/recommend Euphorbium Compositum Nasal Spray?

- ↳ An effective anti-inflammatory and antiviral nasal spray
- ↳ Broad range of effectiveness (for acute and chronic forms of rhinitis and sinusitis)
- ↳ For the treatment of mucous membrane damages (rhinitis sicca, hyperplastica, medicamentosa and atrophicans)
- ↳ Isotonic sodium chloride solution prevents desiccation of the mucous membranes and tends to reduce swelling
- ↳ Achievement of free nasal breathing
- ↳ Prevention of evolution towards chronicity
- ↳ Well-tolerated and without adverse effects:
 - no reactive hyperaemia ("rebound effect")
 - no tachyphylaxis
 - non addictive
 - no sedative properties
 - no burning sensation in the mucous membranes
 - no known side effects
 - compatible with other medications
- ↳ Suitable for long-term treatment
- ↳ Safe and effective for the whole family (infants, children, pregnant and nursing women)
- ↳ Available without a prescription

-Heel®

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