

NoriZite™ Nasal Spray



Capture – Protect – Prevent

Many viruses are contracted and transmitted by inhalation of infectious aerosols containing virus particles. The nose is a major viral entry point into the body, making it an ideal target for approaches designed to reduce person-to-person transmission.



NoriZite™ Nasal Spray

This easy-to-use protective nasal spray is designed to help reduce the risk of infection from viruses transmitted primarily by the airborne route. The gel-like protection creates a barrier in the nasal cavity, formulated with specific ingredients to physically trap viruses and remove them from the nose. It has a patented blend of ingredients used to improve muco-adhesion, prolonging residence time in the nasal cavity for longer lasting protection.

How Does it Work?



Forms a barrier

The spray coats the nasal cavity, creating a strong, protective barrier against viruses.



Traps

The spray creates a gel layer, encapsulating the virus in the nasal cavity.



Removes

The gel layer and virus are removed naturally by the body.



Key Benefits

- Gel-like protection creates a strong barrier to trap viruses
- Unique formulation 'plumes' rather than 'jets'
- Greater surface coverage provides at least 6 hours of protection with each application
- Stays in the nose for at least 6 hours after each application
- Safe and easy to use, with a widely applicable mode of action

NoriZite™ Nasal Spray offers:



Different packaging options

Available in 20ML glass & 10ML plastic bottles



Safe, effective ingredients

The two main ingredients have established use in medical products



Regulatory flexibility and readiness as a medical device

The product has obtained CE Mark MDR Class 1, FDA 510 (k) Class I Exempt Device and MHRA Class 1 Medical Device



Easy transport and storage

Medium boxes provided for easy transport and display; 24-month shelf life; no cold chain storage required

Unique Formulation NoriZite™

The spray contains NoriZite™, a patented blend of natural ingredients capable of slowing or preventing viral infection. The spray has been formulated by the Healthcare Technologies Institute at the University of Birmingham. The two main ingredients are iota-carrageenan and gellan gum.

Iota-carrageenan

A natural antiviral derived from red seaweed.

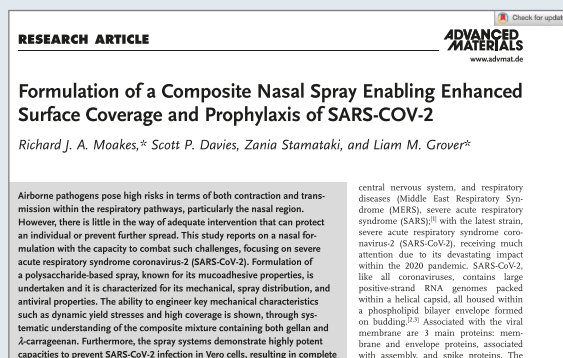
Gellan gum

A polysaccharide gel that coats and retains the virus so it does not travel further down the respiratory tract.

Led by Science

Laboratory data have confirmed the NoriZite™ formulation can prevent infection of cells in culture with SARS-CoV-2¹. Follow-up studies have further demonstrated the antiviral efficacy of the spray was maintained against other variants².

Gellan gum enhances the efficacy of the iota-carrageenan at high levels of dilution, which should mean that it is effective for longer.



Usage Information



Want to know more about distribution or licensing opportunities?

Contact us at info@birminghambiotech.co.uk

References

1. Moakes R, Davies S, Stamataki Z, Grover L. Formulation of a Composite Nasal Spray Enabling Enhanced Surface Coverage and Prophylaxis of SARS-COV-2. *Advanced Materials*. 2021;33(26):2008304.
2. Moakes R, Stamataki Z, Grover L. Manuscript in preparation.



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