

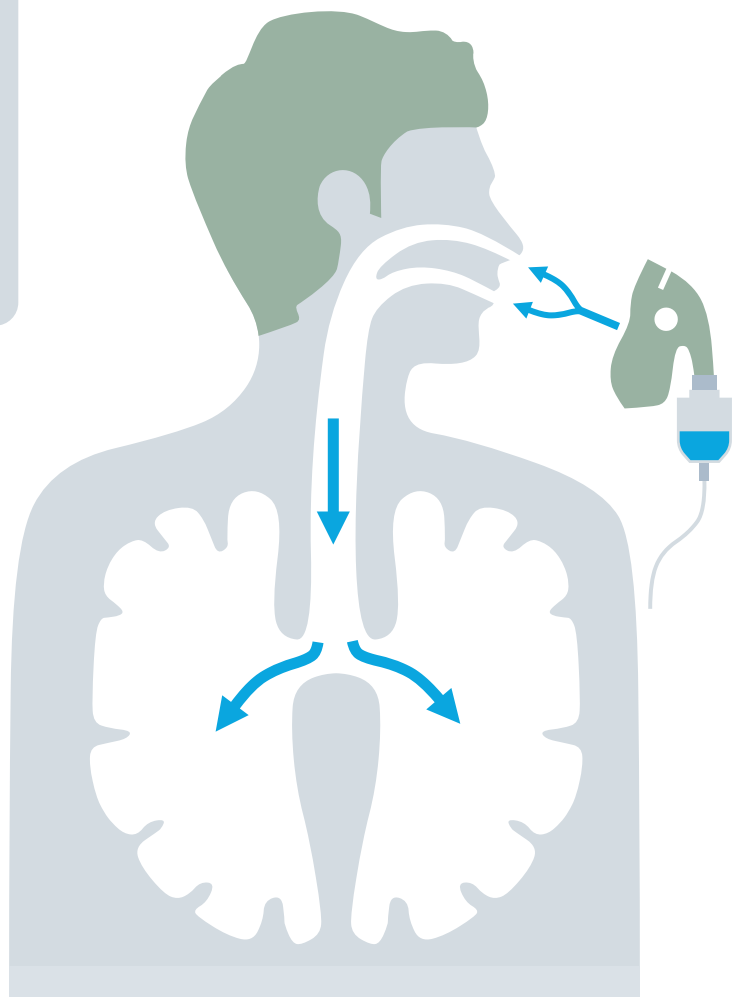
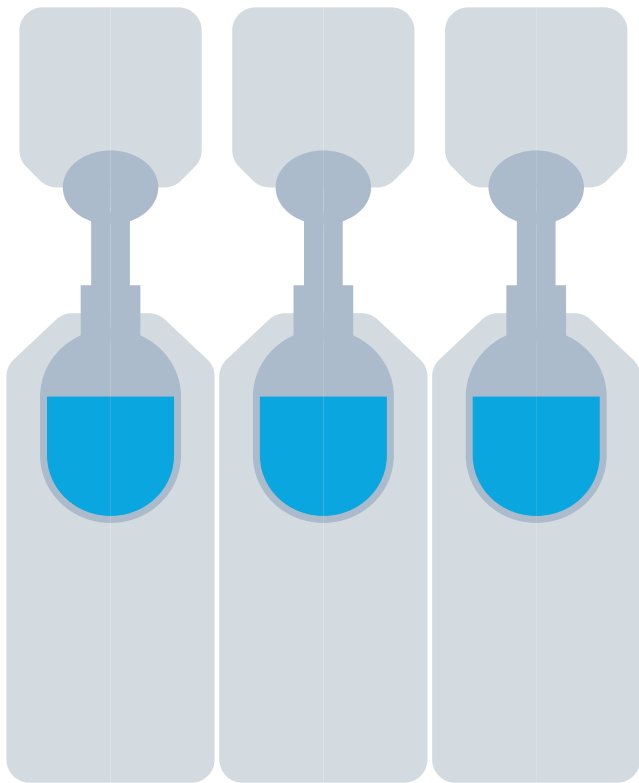
FILLING YOUR NEEDS



BOTTELPOST

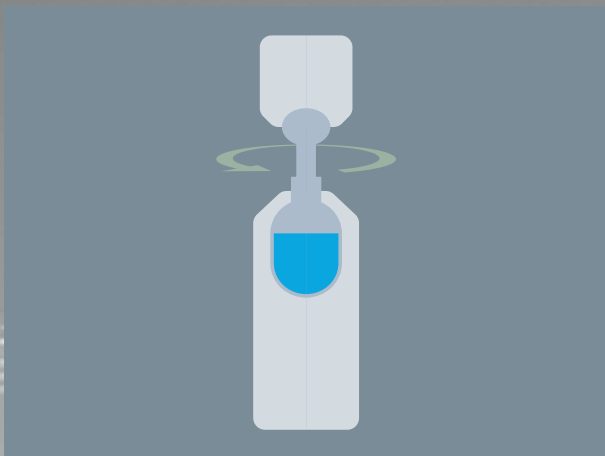
INHALATION

FOR INHALATION APPLICATIONS/PRODUCTS



bottelpack®

BLOW-FILL-SEAL TECHNOLOGY



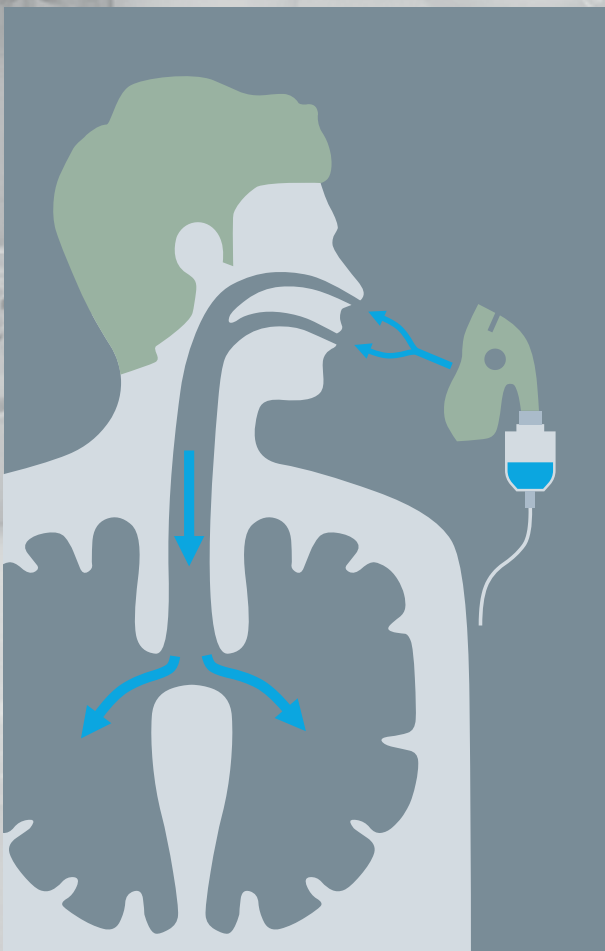
PREPARATION

Separate the single ampoule from the ampoule strips. Keep the ampoule with the ampoule neck upwards. Twist the top flag off.



APPLICATION

Hold the orifice of the ampoule over the nebuliser of the inhalation unit and squeeze the ampoule to empty it. Put the mask or mouth piece on and inhale the solution.



INHALATION

Inhalation solutions are a well known and accepted treatment for allergic asthma. By the means of an inhalation unit the drug is nebulised and can be inhaled via a mask or a mouth piece. In this way the solution will be inhaled deep down into the bronchial tubes and can develop its effect, bypassing the bloodstream.

In past years the treatment of a variety of breathing disorders by the means of inhalation solutions has become a high priority.

It is observed that such disorders show a constant and important increase in numbers of patients.

Inhalation solutions are usually administered as a fine aqueous mist created by a nebulizer. Until recently a number of such nebulizer solutions were manufactured not to be sterile but with a controlled microbial count limit. For this purpose a preservative is added to the solution, mostly Benzalkonium Chloride. This preservative, however, may cause the side effect bronchial constriction, possibly resulting in insufficient relief during an attack.

The FDA has published a proposal in which is stated that all inhalation solutions for nebulization should be sterile. It states that «contaminated inhalation solutions for nebulization are likely to cause lung infections because the drug product is introduced directly into the lungs in a manner which at least partially bypasses the patient's natural defense mechanisms».

The solution to the aforementioned is an aseptic fill of a non-preserved solution into unit-dose containers. For more than 20 years the manufacture of such ampoules continues to be a speciality of the bottelpack® aseptic system.



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