

1. NAME OF THE MEDICINAL PRODUCT

Seebri Breezhaler 50 mcg Inhalation Powder Hard Capsules

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each capsule contains 63 micrograms of glycopyrronium bromide equivalent to 50 micrograms of glycopyrronium.

Each delivered dose (the dose that leaves the mouthpiece of the inhaler) contains 55 micrograms of glycopyrronium bromide equivalent to 44 micrograms of glycopyrronium.

Excipient(s) with known effect:

Each capsule contains 23.6 mg lactose (as monohydrate).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Inhalation powder, hard capsule (inhalation powder).

Transparent orange capsules containing a white powder, with the product code “GPL50” printed in black above a black bar and the company logo () printed in black below a black bar.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Seebri Breezhaler is indicated as a once-daily maintenance bronchodilator treatment to relieve symptoms in adult patients with chronic obstructive pulmonary disease (COPD).

4.2 Posology and method of administration

Posology

The recommended dose is the inhalation of the content of one capsule once daily using the Seebri Breezhaler inhaler.

Seebri Breezhaler is recommended to be administered, at the same time of the day each day. If a dose is missed, the next dose should be taken as soon as possible. Patients should be instructed not to take more than one dose in a day.

Special populations

Elderly population

Seebri Breezhaler can be used at the recommended dose in elderly patients (75 years of age and older) (see section 4.8).

Renal impairment

Seebri Breezhaler can be used at the recommended dose in patients with mild to moderate renal impairment. In patients with severe renal impairment or end-stage renal disease requiring dialysis Seebri Breezhaler should be used only if the expected benefit outweighs the potential risk since the systemic exposure to glycopyrronium may be increased in this population (see sections 4.4 and 5.2).

Hepatic impairment

No studies have been conducted in patients with hepatic impairment. Glycopyrronium is predominantly cleared by renal excretion and therefore no major increase in exposure is expected in patients with hepatic impairment. No dose adjustment is required in patients with hepatic impairment.

Paediatric population

There is no relevant use of Seebri Breezhaler in the paediatric population (under 18 years) in the indication COPD.

Method of administration

For inhalation use only.

The capsules must be administered only using the Seebri Breezhaler inhaler (see section 6.6).

The capsules must only be removed from the blister immediately before use.

The capsules must not be swallowed.

Patients should be instructed on how to administer the medicinal product correctly. Patients who do not experience improvement in breathing should be asked if they are swallowing the medicinal product rather than inhaling it.

For instructions on use of the medicinal product before administration, see section 6.6.

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

4.4 Special warnings and precautions for use

Not for acute use

Seebri Breezhaler is a once-daily, long-term maintenance treatment and is not indicated for the initial treatment of acute episodes of bronchospasm, i.e. as a rescue therapy.

Hypersensitivity

Immediate hypersensitivity reactions have been reported after administration of Seebri Breezhaler. If signs suggesting allergic reactions occur, in particular, angioedema (including difficulties in breathing or swallowing, swelling of the tongue, lips, and face), urticaria or skin rash, treatment should be discontinued immediately and alternative therapy instituted.

Paradoxical bronchospasm

In clinical studies with Seebri Breezhaler, paradoxical bronchospasm was not observed. However, paradoxical bronchospasm has been observed with other inhalation therapy and can be life-threatening. If this occurs, treatment should be discontinued immediately and alternative therapy instituted.

Anticholinergic effect

Seebri Breezhaler should be used with caution in patients with narrow-angle glaucoma or urinary retention.

Patients should be informed about the signs and symptoms of acute narrow-angle glaucoma and should be informed to stop using Seebri Breezhaler and to contact their doctor immediately should any of these signs or symptoms develop.

Patients with severe renal impairment

A moderate mean increase in total systemic exposure (AUC_{last}) of up to 1.4-fold was seen in subjects with mild and moderate renal impairment and up to 2.2-fold in subjects with severe renal impairment and end-stage renal disease. In patients with severe renal impairment (estimated glomerular filtration rate below 30 ml/min/1.73 m²), including those with end-stage renal disease requiring dialysis, Seebri Breezhaler should be used only if the expected benefit outweighs the potential risk (see section 5.2). These patients should be monitored closely for potential adverse reactions.

Patients with a history of cardiovascular disease

Patients with unstable ischaemic heart disease, left ventricular failure, history of myocardial infarction, arrhythmia (excluding chronic stable atrial fibrillation), a history of long QT syndrome or whose QTc (Fridericia method) was prolonged (>450 ms for males or >470 ms for females) were excluded from the clinical trials, and therefore the experience in these patient groups is limited. Seebri Breezhaler should be used with caution in these patient groups.

Excipients

Patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose malabsorption should not take this medicinal product.

4.5 Interaction with other medicinal products and other forms of interaction

The co-administration of Seebri Breezhaler with other anticholinergic-containing medicinal products has not been studied and is therefore not recommended.

Although no formal drug interaction studies have been performed, Seebri Breezhaler has been used concomitantly with other medicinal products commonly used in the treatment of COPD without clinical evidence of drug interactions. These include sympathomimetic bronchodilators, methylxanthines, and oral and inhaled steroids.

In a clinical study in healthy volunteers, cimetidine, an inhibitor of organic cation transport which is thought to contribute to the renal excretion of glycopyrronium, increased total exposure (AUC) to glycopyrronium by 22% and decreased renal clearance by 23%. Based on the magnitude of these changes, no clinically relevant drug interaction is expected when glycopyrronium is co-administered with cimetidine or other inhibitors of organic cation transport.

Concomitant administration of glycopyrronium and orally inhaled indacaterol, a beta₂-adrenergic agonist, under steady-state conditions of both active substances did not affect the pharmacokinetics of either medicinal product.

4.6 Fertility, pregnancy and lactation

Pregnancy

There are no data from the use of Seebri Breezhaler in pregnant women. Animal studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity (see section 5.3). Glycopyrronium should only be used during pregnancy if the expected benefit to the patient justifies the potential risk to the foetus.

Breast-feeding

It is unknown whether glycopyrronium bromide is excreted in human milk. However, glycopyrronium bromide (including its metabolites) was excreted in the milk of lactating rats (see section 5.3). The use of glycopyrronium by breast-feeding women should only be considered if the expected benefit to the woman is greater than any possible risk to the infant (see section 5.3).

Fertility

Reproduction studies and other data in animals do not indicate a concern regarding fertility in either

males or females (see section 5.3).

4.7 Effects on ability to drive and use machines

Glycopyrronium has no or negligible influence on the ability to drive and use machines.

4.8 Undesirable effects

Summary of the safety profile

The most common anticholinergic adverse reaction was dry mouth (2.4%). The majority of the reports of dry mouth were suspected to be related to the medicinal product and were mild, with none being severe.

The safety profile is further characterised by other symptoms related to the anticholinergic effects, including signs of urinary retention, which were uncommon. Gastrointestinal effects including gastroenteritis and dyspepsia were also observed. Adverse reactions related to local tolerability included throat irritation, nasopharyngitis, rhinitis and sinusitis.

Tabulated summary of adverse reactions

Adverse reactions reported during the first six months of two pooled pivotal Phase III trials of 6 and 12 months duration are listed by MedDRA system organ class (Table 1). Within each system organ class, the adverse reactions are ranked by frequency, with the most frequent reactions first. Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness. In addition, the corresponding frequency category for each adverse reaction is based on the following convention: very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1,000$ to $< 1/100$); rare ($\geq 1/10,000$ to $< 1/1,000$); very rare ($< 1/10,000$); not known (cannot be estimated from the available data).

Table 1 Adverse reactions

Adverse reactions	Frequency category
Infections and infestations	
Nasopharyngitis ¹⁾	Common
Rhinitis	Uncommon
Cystitis	Uncommon
Immune system disorders	
Hypersensitivity	Uncommon
Angioedema ²⁾	Uncommon
Metabolism and nutrition disorders	
Hyperglycaemia	Uncommon
Psychiatric disorders	
Insomnia	Common
Nervous system disorders	
Headache ³⁾	Common
Hypoaesthesia	Uncommon

Cardiac disorders	
Atrial fibrillation	Uncommon
Palpitations	Uncommon
Respiratory, thoracic and mediastinal disorders	
Sinus congestion	Uncommon
Productive cough	Uncommon
Throat irritation	Uncommon
Epistaxis	Uncommon
Dysphonia ²⁾	Uncommon
Paradoxical bronchospasm ²⁾	Not known
Gastrointestinal disorders	
Dry mouth	Common
Gastroenteritis	Common
Nausea ²⁾	Uncommon
Vomiting ^{1) 2)}	Uncommon
Dyspepsia	Uncommon
Dental caries	Uncommon
Skin and subcutaneous tissue disorders	
Rash	Uncommon
Pruritus ²⁾	Uncommon
Musculoskeletal and connective tissue disorders	
Musculoskeletal pain ^{1) 2)}	Common
Pain in extremity	Uncommon
Musculoskeletal chest pain	Uncommon
Renal and urinary disorders	
Urinary tract infection ³⁾	Common
Dysuria	Uncommon
Urinary retention	Uncommon
General disorders and administration site conditions	
Fatigue	Uncommon
Asthenia	Uncommon

1) More frequent for glycopyrronium than placebo in the 12 months database only.

2) Reports have been received from post-approval marketing experience in association with the use of Seebri Breezhaler. These were reported voluntarily from a population of uncertain size, and it is therefore not always possible to reliably estimate the frequency or establish a causal relationship to drug exposure. Therefore the frequency was calculated from clinical trial experience.

3) Seen more frequently for glycopyrronium than placebo in elderly >75 years only.

Description of selected adverse reactions

In the pooled 6-month database the frequency of dry mouth was 2.2% versus 1.1%, of insomnia 1.0% versus 0.8%, and of gastroenteritis 1.4% versus 0.9%, for Seebri Breezhaler and placebo respectively.

Dry mouth was reported mainly during the first 4 weeks of treatment with a median duration of four weeks in the majority of patients. However in 40% of cases symptoms continued for the entire 6-

month period. No new cases of dry mouth were reported in months 7-12.

4.9 Overdose

High doses of glycopyrronium may lead to anticholinergic signs and symptoms for which symptomatic treatment may be indicated.

Acute intoxication by inadvertent oral ingestion of Seebri Breezhaler capsules is unlikely due to the low oral bioavailability (about 5%).

Peak plasma levels and total systemic exposure following intravenous administration of 150 micrograms glycopyrronium bromide (equivalent to 120 micrograms glycopyrronium) in healthy volunteers were respectively about 50-fold and 6-fold higher than the peak and total exposure at steady-state achieved with the recommended dose (50 micrograms once daily) of Seebri Breezhaler and were well tolerated.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Drugs for obstructive airway diseases, anticholinergics, ATC code: R03BB06

Mechanism of action

Glycopyrronium is an inhaled long-acting muscarinic receptor antagonist (anticholinergic) for once-daily maintenance bronchodilator treatment of COPD. Parasympathetic nerves are the major bronchoconstrictive neural pathway in airways, and cholinergic tone is the key reversible component of airflow obstruction in COPD. Glycopyrronium works by blocking the bronchoconstrictor action of acetylcholine on airway smooth muscle cells, thereby dilating the airways.

Glycopyrronium bromide is a high affinity muscarinic receptor antagonist. A greater than 4-fold selectivity for the human M3 receptors over the human M2 receptor has been demonstrated using radioligand binding studies. It has a rapid onset of action as evidenced by observed receptor association/dissociation kinetic parameters and the onset of action after inhalation in clinical studies.

The long duration of action can be partly attributed to sustained concentrations of active substance in the lung as reflected by the prolonged terminal elimination half-life of glycopyrronium after inhalation via the Seebri Breezhaler inhaler in contrast to the half life after intravenous administration (see section 5.2).

Pharmacodynamic effects

The clinical Phase III development programme included two phase III studies: a 6-month placebo-controlled study and a 12-month placebo and active-controlled (open label tiotropium 18 micrograms once daily) study, both in patients with clinical diagnosis of moderate to severe COPD.

Effects on lung function

Seebri Breezhaler 50 micrograms once daily provided consistently statistically significant improvement in lung function (forced expiratory volume in one second, FEV₁, forced vital capacity, FVC, and inspiratory capacity, IC) in a number of clinical studies. In phase III studies, bronchodilator effects were seen within 5 minutes after the first dose and were maintained over the 24-hour dosing interval from the first dose. There was no attenuation of the bronchodilator effect over time in the 6- and 12-month studies. The magnitude of the effect was dependent on the degree of reversibility of airflow limitation at baseline (tested by administration of a short-acting muscarinic antagonist bronchodilator): Patients with the lowest degree of reversibility at baseline (<5%) generally exhibited

a lower bronchodilator response than patients with a higher degree of reversibility at baseline ($\geq 5\%$). At 12 weeks (primary endpoint), Seebri Breezhaler increased trough FEV₁ by 72 ml in patients with the lowest degree of reversibility ($< 5\%$) and by 113 ml in those patients with a higher degree of reversibility at baseline ($\geq 5\%$) compared to placebo (both $p < 0.05$).

In the 6-month study, Seebri Breezhaler increased FEV₁ after the first dose with an improvement of 93 ml within 5 minutes and 144 ml within 15 minutes of dosing, compared to placebo (both $p < 0.001$). In the 12-month study, the improvements were 87 ml at 5 minutes and 143 ml at 15 minutes (both $p < 0.001$). In the 12-month study, Seebri Breezhaler produced statistically significant improvements in FEV₁ compared to tiotropium in the first 4 hours after dosing on day 1 and at week 26, and numerically greater values for FEV₁ in the first 4 hours after dosing than tiotropium at week 12 and week 52.

The values for FEV₁ at the end of the dosing interval (24 h post dose) were similar between the first dose and those seen after 1 year of dosing. At 12 weeks (primary endpoint), Seebri Breezhaler increased trough FEV₁ by 108 ml in the 6-month study and by 97 ml in the 12-month study compared to placebo (both $p < 0.001$). In the 12-month study, the improvement versus placebo for tiotropium was 83 ml ($p < 0.001$).

Symptomatic outcomes

Seebri Breezhaler administered at 50 micrograms once daily statistically significantly reduced breathlessness as evaluated by the Transitional Dyspnoea Index (TDI). In a pooled analysis of the 6- and 12-month pivotal studies a statistically significantly higher percentage of patients receiving Seebri Breezhaler responded with a 1 point or greater improvement in the TDI focal score at week 26 compared to placebo (58.4% and 46.4% respectively, $p < 0.001$). These findings were similar to those seen in patients receiving tiotropium, 53.4% of whom responded with 1 point or greater improvement ($p = 0.009$ compared to placebo).

Seebri Breezhaler once daily has also shown a statistically significant effect on health-related quality of life measured using the St. George's Respiratory Questionnaire (SGRQ). A pooled analysis of the 6- and 12-month pivotal studies found a statistically significantly higher percentage of patients receiving Seebri Breezhaler responded with a 4 point or greater improvement in SGRQ compared to placebo at week 26 (57.8% and 47.6% respectively, $p < 0.001$). For patients receiving tiotropium, 61.0% responded with a 4 point or greater improvement in SGRQ ($p = 0.004$ compared to placebo).

COPD exacerbations reduction

COPD exacerbation data was collected in the 6- and 12-month pivotal studies. In both studies, the percentage of patients experiencing a moderate or severe exacerbation (defined as requiring treatment with systemic corticosteroids and/or antibiotics or hospitalisation) was reduced. In the 6-month study, the percentage of patients experiencing a moderate or severe exacerbation was 17.5% for Seebri Breezhaler and 24.2% for placebo (Hazard ratio: 0.69, $p = 0.023$), and in the 12-month study it was 32.8% for Seebri Breezhaler and 40.2% for placebo (Hazard ratio: 0.66, $p = 0.001$). In a pooled analysis of the first 6 months of treatment in the 6- and 12-month studies, compared to placebo Seebri Breezhaler statistically significantly prolonged time to first moderate or severe exacerbation and reduced the rate of moderate or severe COPD exacerbations (0.53 exacerbations/year versus 0.77 exacerbations/year, $p < 0.001$). The pooled analysis also showed fewer patients treated with Seebri Breezhaler than with placebo experienced an exacerbation requiring hospitalisation (1.7% versus 4.2%, $p = 0.003$).

Other effects

Seebri Breezhaler once daily statistically significantly reduced the use of rescue medication (salbutamol) by 0.46 puffs per day ($p = 0.005$) over 26 weeks and by 0.37 puffs per day ($p = 0.039$) over 52 weeks, compared to placebo for the 6- and 12-month studies, respectively.

In a 3-week study where exercise tolerance was tested via cycle ergometer at submaximal (80%) workload (submaximal exercise tolerance test), Seebri Breezhaler, dosed in the morning, reduced dynamic hyperinflation and improved the length of time exercise could be maintained from the first dose onwards. On the first day of treatment inspiratory capacity under exercise was improved by 230 ml and exercise endurance time was improved by 43 seconds (an increase of 10%) compared to placebo. After three weeks of treatment the improvement in inspiratory capacity with Seebri Breezhaler was similar to the first day (200 ml), exercise endurance time however had increased by 89 seconds (an increase of 21%) compared to placebo. Seebri Breezhaler was found to decrease dyspnoea and leg discomfort when exercising as measured using Borg scales. Seebri Breezhaler also reduced dyspnoea at rest measured using the Transitional Dyspnoea Index.

Secondary pharmacodynamic effects

No change in mean heart rate or QTc interval was observed with Seebri Breezhaler in doses up to 200 micrograms in COPD patients. In a thorough QT study in 73 healthy volunteers, a single inhaled dose of glycopyrronium 352 micrograms (8 times the therapeutic dose) did not prolong the QTc interval and slightly reduced heart rate (maximal effect -5.9 bpm; average effect over 24 hours -2.8 bpm) when compared to placebo. The effect on heart rate and QTc interval of 150 micrograms glycopyrronium bromide (equivalent to 120 micrograms glycopyrronium) administered intravenously was investigated in young healthy subjects. Peak exposures (C_{max}) about 50-fold higher than after inhalation of glycopyrronium 50 micrograms at steady state were achieved and did not result in tachycardia or QTc prolongation. A slight reduction in heart rate (mean difference over 24 h -2 bpm when compared to placebo), which is a known effect of low exposures to anticholinergic compounds in young healthy subjects, was observed.

5.2 Pharmacokinetic properties

Absorption

Following oral inhalation using the Seebri Breezhaler inhaler, glycopyrronium was rapidly absorbed and reached peak plasma levels at 5 minutes post dose.

The absolute bioavailability of glycopyrronium inhaled via Seebri Breezhaler was estimated to be about 45% of the delivered dose. About 90% of systemic exposure following inhalation is due to lung absorption and 10% is due to gastrointestinal absorption.

In patients with COPD, pharmacokinetic steady-state of glycopyrronium was reached within one week of the start of treatment. The steady-state mean peak and trough plasma concentrations of glycopyrronium for a 50 micrograms once-daily dosing regimen were 166 picograms/ml and 8 picograms/ml, respectively. Steady-state exposure to glycopyrronium (AUC over the 24-hour dosing interval) was about 1.4- to 1.7-fold higher than after the first dose.

Distribution

After intravenous dosing, the steady-state volume of distribution of glycopyrronium was 83 litres and the volume of distribution in the terminal phase was 376 litres. The apparent volume of distribution in the terminal phase following inhalation was almost 20-fold larger, which reflects the much slower elimination after inhalation. The *in vitro* human plasma protein binding of glycopyrronium was 38% to 41% at concentrations of 1 to 10 nanograms/ml.

Biotransformation

In vitro metabolism studies showed consistent metabolic pathways for glycopyrronium bromide between animals and humans. Hydroxylation resulting in a variety of mono- and bis-hydroxylated metabolites and direct hydrolysis resulting in the formation of a carboxylic acid derivative (M9) were seen. *In vivo*, M9 is formed from the swallowed dose fraction of inhaled glycopyrronium bromide. Glucuronide and/or sulfate conjugates of glycopyrronium were found in urine of humans after repeated inhalation, accounting for about 3% of the dose.

Multiple CYP isoenzymes contribute to the oxidative biotransformation of glycopyrronium. Inhibition or induction of the metabolism of glycopyrronium is unlikely to result in a relevant change of systemic exposure to the active substance.

In vitro inhibition studies demonstrated that glycopyrronium bromide has no relevant capacity to inhibit CYP1A2, CYP2A6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1 or CYP3A4/5, the efflux transporters MDR1, MRP2 or MXR, and the uptake transporters OCT1 or OCT2. *In vitro* enzyme induction studies did not indicate a clinically relevant induction by glycopyrronium bromide for cytochrome P450 isoenzymes, or for UGT1A1 and the transporters MDR1 and MRP2.

Elimination

After intravenous administration of [³H]-labelled glycopyrronium bromide to humans, the mean urinary excretion of radioactivity in 48 hours amounted to 85% of the dose. A further 5% of the dose was found in the bile.

Renal elimination of parent drug accounts for about 60 to 70% of total clearance of systemically available glycopyrronium whereas non-renal clearance processes account for about 30 to 40%. Biliary clearance contributes to the non-renal clearance, but the majority of non-renal clearance is thought to be due to metabolism.

Mean renal clearance of glycopyrronium following inhalation was in the range of 17.4 and 24.4 litres/h. Active tubular secretion contributes to the renal elimination of glycopyrronium. Up to 23% of the delivered dose was found in urine as parent drug.

Glycopyrronium plasma concentrations declined in a multi-phasic manner. The mean terminal elimination half-life was much longer after inhalation (33 to 57 hours) than after intravenous (6.2 hours) and oral (2.8 hours) administration. The elimination pattern suggests sustained lung absorption and/or transfer of glycopyrronium into the systemic circulation at and beyond 24 hours after inhalation.

Linearity/non-linearity

In COPD patients both systemic exposure and total urinary excretion of glycopyrronium at pharmacokinetic steady state increased about dose-proportionally over the dose range of 50 to 200 micrograms.

Special populations

A population pharmacokinetic analysis of data in COPD patients identified body weight and age as factors contributing to inter-patient variability in systemic exposure. Seebri Breezhaler 50 micrograms once daily can be safely used in all age and body weight groups.

Gender, smoking status and baseline FEV₁ had no apparent effect on systemic exposure.

There were no major differences in total systemic exposure (AUC) between Japanese and Caucasian subjects following inhalation of glycopyrronium bromide. Insufficient pharmacokinetic data is available for other ethnicities or races.

Patients with hepatic impairment

Clinical studies have not been conducted in patients with hepatic impairment. Glycopyrronium is cleared predominantly from the systemic circulation by renal excretion. Impairment of the hepatic metabolism of glycopyrronium is not thought to result in a clinically relevant increase of systemic exposure.

Patients with renal impairment

Renal impairment has an impact on the systemic exposure to glycopyrronium bromide. A moderate mean increase in total systemic exposure (AUC_{last}) of up to 1.4-fold was seen in subjects with mild and moderate renal impairment and up to 2.2-fold in subjects with severe renal impairment and end-stage renal disease. In COPD patients with mild and moderate renal impairment (estimated glomerular filtration rate, $eGFR \geq 30$ ml/min/1.73 m²) Seebri Breezhaler can be used at the recommended dose. In patients with severe renal impairment ($eGFR < 30$ ml/min/1.73 m²), including those with end-stage renal disease requiring dialysis, Seebri Breezhaler should only be used if the expected benefit outweighs the potential risk (see section 4.4).

5.3 Preclinical safety data

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose toxicity, genotoxicity, carcinogenic potential, toxicity to reproduction and development.

Effects attributable to the muscarinic receptor antagonist properties of glycopyrronium bromide included mild to moderate increases in heart rate in dogs, lens opacities in rats and, reversible changes associated with reduced glandular secretions in rats and dogs. Mild irritancy or adaptive changes in the respiratory tract were seen in rats. All these findings occurred at exposures sufficiently in excess of those anticipated in humans.

Glycopyrronium was not teratogenic in rats or rabbits following inhalation administration. Fertility and pre- and post-natal development were not affected in rats. Glycopyrronium bromide and its metabolites did not significantly cross the placental barrier of pregnant mice, rabbits and dogs. Glycopyrronium bromide (including its metabolites) was excreted into the milk of lactating rats and reached up to 10-fold higher concentrations in the milk than in the blood of the dam.

Genotoxicity studies did not reveal any mutagenic or clastogenic potential for glycopyrronium bromide. Carcinogenicity studies in transgenic mice using oral administration and in rats using inhalation administration revealed no evidence of carcinogenicity at systemic exposures (AUC) of approximately 53-fold higher in mice and 75-fold higher in rats than the maximum recommended dose of 50 micrograms once daily for humans.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Capsule fill:

Lactose monohydrate
Magnesium stearate

Capsule shell:

Hypromellose
Purified water
Carrageenan
Potassium chloride
FDC Yellow 6 (110 Sunset Yellow FCF)

Pharmaceutical formulations may vary between countries.

6.2 Storage

Do not store above 30°C.

Seebri Breezhaler should not be used after the date marked “EXP” on the pack.

Seebri Breezhaler must be kept out of the reach and sight of children.

6.3 Pack Size

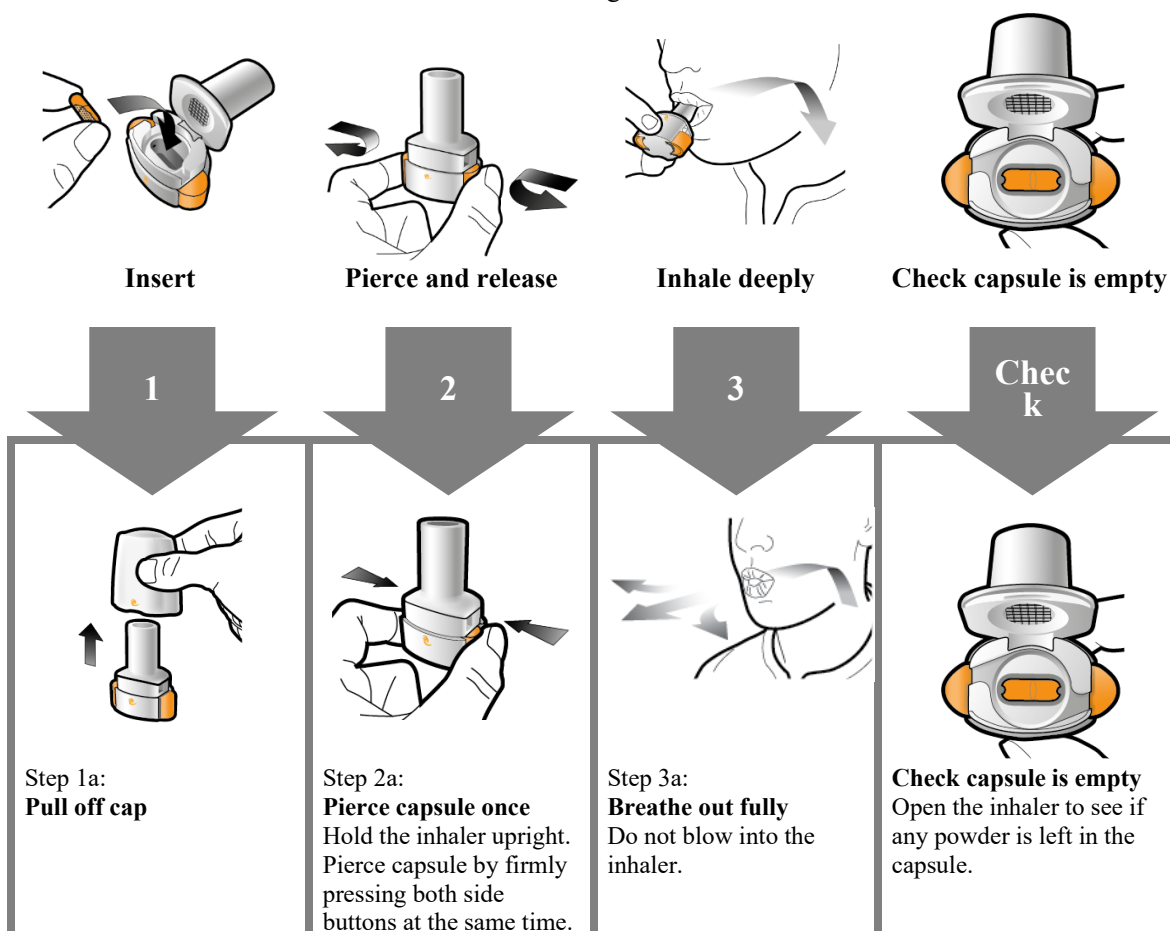
Each Seebri Breezhaler pack contains 30 capsules and 1 inhaler.

6.4 Special precautions for disposal and other handling

The inhaler provided with each new prescription should be used. Each inhaler should be disposed of after all capsules have been used.

Instructions for handling and use

Please read the full **Instructions for Use** before using the Seebri Breezhaler.





Step 1b:
Open inhaler



Step 1c:
Remove capsule
Separate one of the blisters from the blister card.
Peel open the blister and remove the capsule.
Do not push the capsule through the foil.
Do not swallow the capsule.

You should hear a noise as the capsule is pierced. Only pierce the capsule once.



Step 2b:
Release side buttons



Step 3b:
Inhale medicine deeply
Hold the inhaler as shown in the picture. Place the mouthpiece in your mouth and close your lips firmly around it.
Do not press the side buttons.
Breathe in quickly and as deeply as you can. During inhalation you will hear a whirring noise. You may taste the medicine as you inhale.

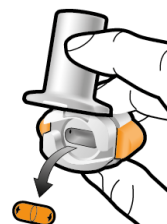


Step 3c:
Hold breath
Hold your breath for up to 5 seconds.

If there is powder left in the capsule:
Close the inhaler.
Repeat steps 3a to 3c.

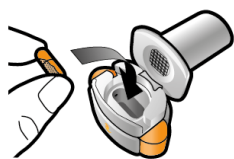

Powder remaining


Empty



Remove empty capsule
Put the empty capsule in your household waste.

Close the inhaler and replace the cap.



Step 1d:
Insert capsule
Never place a capsule
directly into the
mouthpiece.



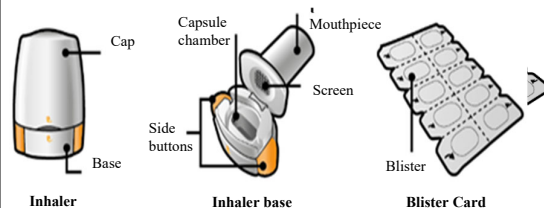
Step 1e:
Close inhaler

Important Information

- **Seebri Breezhaler** capsules must always be stored in the blister card and only removed immediately before use.
- Do not push the capsule through the foil to remove it from the blister.
- Do not swallow the capsule.
- Do not use the **Seebri Breezhaler** capsules with any other inhaler.
- Do not use the **Seebri Breezhaler** inhaler to take any other capsule medicine.
- Never place the capsule into your mouth or the mouthpiece of the inhaler.
- Do not press the side buttons more than once.
- Do not blow into the mouthpiece.
- Do not press the side buttons while inhaling through the mouthpiece.
- Do not handle capsules with wet hands.
- Never wash your inhaler with water.

Your Seebri Breezhaler Inhaler pack contains:

- One Seebri Breezhaler inhaler
- One or more blister cards, each containing either 6 or 10 Seebri Breezhaler capsules to be used in the inhaler



Frequently Asked Questions

Why didn't the inhaler make a noise when I inhaled?

The capsule may be stuck in the capsule chamber. If this happens, carefully loosen the capsule by tapping the base of the inhaler. Inhale the medicine again by repeating steps 3a to 3c.

What should I do if there is powder left inside the capsule?

You have not received enough of your medicine. Close the inhaler and repeat steps 3a to 3c.

I coughed after inhaling – does this matter?

This may happen. As long as the capsule is empty you have received enough of your medicine.

I felt small pieces of the capsule on my tongue – does this matter?

This can happen. It is not harmful. The chances of the capsule breaking into small pieces will be increased if the capsule is pierced more than once.

Cleaning the inhaler

Wipe the mouthpiece inside and outside with a clean, dry, lint-free cloth to remove any powder residue. Keep the inhaler dry. Never wash your inhaler with water.

Disposing of the inhaler after use

Each inhaler should be disposed of after all capsules have been used. Ask your pharmacist how to dispose of medicines and inhalers that are no longer required.

Product Registration Holder:

Novartis Corporation (Malaysia) Sdn. Bhd.
Level 18, Imazium,
No. 8, Jalan SS21/37, Damansara Uptown,
47400 Petaling Jaya, Selangor

Malaysia Package Leaflet

Information issued: 11-Feb-2020
Revision date: Jul 2021

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Novartis Pharma AG, Basel, Switzerland