ANNEX I
SUMMARY OF PRODUCT CHARACTERISTICS

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#### 1. NAME OF THE MEDICINAL PRODUCT

BroPair Spiromax 12.75 micrograms/100 micrograms inhalation powder BroPair Spiromax 12.75 micrograms/202 micrograms inhalation powder

# 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each delivered dose (the dose from the mouthpiece) contains 12.75 micrograms of salmeterol (as salmeterol xinafoate) and 100, or 202 micrograms of fluticasone propionate.

Each metered dose contains 14 micrograms of salmeterol (as salmeterol xinafoate) and 113, or 232 micrograms of fluticasone propionate.

### Excipient(s) with known effect:

Each delivered dose contains approximately 5.4 milligrams of lactose (as monohydrate). For the full list of excipients, see section 6.1.

#### 3. PHARMACEUTICAL FORM

Inhalation powder

White powder.

#### 4. CLINICAL PARTICULARS

#### 4.1 Therapeutic indications

BroPair Spiromax is indicated in the regular treatment of asthma in adults and adolescents aged 12 years and older not adequately controlled with inhaled corticosteroids and 'as needed' inhaled short-acting  $\beta_2$  agonists.

#### 4.2 Posology and method of administration

#### **Posology**

Patients should be advised to take BroPair Spiromax every day, even when asymptomatic.

If symptoms arise in the period between doses, an inhaled, short-acting beta<sub>2</sub>-agonist should be used for immediate relief.

When choosing the starting dose strength of BroPair Spiromax (12.75/100 micrograms medium inhaled corticosteroid [ICS] dose or 12.75/202 micrograms high ICS dose), the patients' disease severity, their previous asthma therapy including ICS dose as well as the patients' current control of asthma symptoms should be considered.

Patients should be regularly reassessed by a doctor, so that the strength of the salmeterol/fluticasone propionate they are receiving remains optimal and is only changed on medical advice. The dose should be titrated to the lowest dose at which effective control of symptoms is maintained.

Note that the delivered doses for BroPair Spiromax are different from other salmeterol/fluticasone containing products on the market. The different dose strengths (medium/high doses of fluticasone) for different products do not necessarily correspond to each other, thus the products are not interchangeable based on the corresponding dose strengths.

Adults and adolescents 12 years and older.

One inhalation of 12.75 micrograms salmeterol and 100 micrograms fluticasone propionate twice daily.

One inhalation of 12.75 micrograms salmeterol and 202 micrograms fluticasone propionate twice daily.

Once control of asthma is attained, treatment should be reviewed and consideration given as to whether patients should be stepped down to salmeterol/fluticasone propionate containing a lower dose of the inhaled corticosteroid, and then, ultimately, to an inhaled corticosteroid alone. Regular review of patients as treatment is stepped down is important.

If an individual patient should require dosages outside the recommended regimen, appropriate doses of  $\beta_2$  agonist and/or inhaled corticosteroid should be prescribed.

# Special populations

Elderly (>65 years)

There is no need to adjust the dose in elderly patients

#### Renal impairment

There is no need to adjust the dose in patients with renal impairment

#### Hepatic impairment

There are no data available on the use of BroPair Spiromax in patients with hepatic impairment.

# Paediatric population

The posology in patients 12 years of age and older is the same posology as in adults. The safety and efficacy in paediatric patients below 12 years of age have not been established. No data are available.

#### Method of administration

Inhalation use.

The device is a breath actuated, inspiratory flow-driven inhaler, which means that the active substances are delivered into the airways when the patient inhales through the mouthpiece.

# Required training

This medicinal product should be used correctly in order to achieve effective treatment. As such, the patients should be advised to read the patient information leaflet carefully and follow the instructions for use as detailed in the leaflet. All patients should be provided with training by the prescribing Health Care Professional on how to use this medicinal product. This is to ensure that they understand how to use the inhaler correctly, and so that they understand the need to breathe in forcefully when inhaling to obtain the required dose. It is important to inhale forcefully to ensure optimal dosing.

The use of this medicinal product follows 3 simple steps: open, breathe, and close, which are outlined below.

Open: Hold the device with the mouthpiece cover at the bottom and open the mouthpiece cover by folding it down until it is fully opened when 1 click is heard.

Breathe: Breathe out fully. Do not breathe out through your inhaler. Put the mouthpiece in your mouth and close your lips tightly around it. Breathe in forcefully and deeply through the mouthpiece. Remove the device from the mouth and hold the breath for 10 seconds or as long as comfortable for you.

Close: Breathe out gently and close the mouthpiece cover.

Patients should not block the air vents at any time, or breathe out through the device when they are preparing the "Breathe" step. Patients are not required to shake the inhaler prior to use.

Patients should also be advised to rinse their mouths with water and spit the water out, and/or brush their teeth after inhaling (see section 4.4).

Patients may notice a taste when using this medicinal product due to the lactose excipient.

Patients should be advised to keep their inhaler dry and clean at all times by gently wiping the mouthpiece with a dry cloth or tissue as needed.

#### 4.3 Contraindications

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

# 4.4 Special warnings and precautions for use

#### Deterioration of disease

Salmeterol/fluticasone propionate should not be used to treat acute asthma symptoms for which a fast- and short-acting bronchodilator is required. Patients should be advised to have their rescue inhaler available to be used for relief in an acute asthma attack at all times.

Patients should not be initiated on salmeterol/fluticasone propionate during an exacerbation, or if they have significantly worsening or acutely deteriorating asthma.

Serious asthma-related adverse events and exacerbations may occur during treatment with salmeterol/fluticasone propionate. Patients should be asked to continue treatment but to seek medical advice if asthma symptoms remain uncontrolled or worsen after initiation on salmeterol/fluticasone propionate.

Increased requirements for use of reliever medication (short-acting bronchodilators), or decreased response to reliever medication indicate deterioration of asthma control and patients should be reviewed by a physician.

Sudden and progressive deterioration in control of asthma is potentially life-threatening and the patient should undergo urgent medical assessment. Consideration should be given to increasing inhaled corticosteroid therapy.

#### Cessation of therapy

Treatment with salmeterol/fluticasone propionate should not be stopped abruptly in patients with asthma due to risk of exacerbation. Therapy should be down-titrated under physician supervision.

# Coexisting conditions

Salmeterol/fluticasone propionate should be administered with caution in patients with active or quiescent pulmonary tuberculosis and fungal, viral, or other infections of the airway. Appropriate treatment should be promptly instituted, if indicated.

# Cardiovascular effects

Rarely, salmeterol/fluticasone propionate may cause cardiac arrhythmias e.g., supraventricular tachycardia, extrasystoles and atrial fibrillation, and a mild transient reduction in serum potassium at high therapeutic doses. Salmeterol/fluticasone propionate should be used with caution in patients with severe cardiovascular disorders or heart rhythm abnormalities and in patients with thyrotoxicosis.

# Hypokalaemia and hyperglycaemia

Beta-adrenergic agonist medicines may produce significant hypokalaemia in some patients, possibly through intracellular shunting, which has the potential to product adverse cardiovascular effects. The decrease in serum potassium is usually transient, not requiring supplementation. Clinically significant changes serum potassium were seen infrequently during clinical trials with salmeterol/fluticasone propionate at recommended doses (see section 4.8). There have been infrequent reports of increases in blood glucose levels (see section 4.8) and this should be considered when prescribing to patients with a history of diabetes mellitus.

Salmeterol/fluticasone propionate should be used with caution in patients with diabetes mellitus, uncorrected hypokalemia, or patients predisposed to low levels of serum potassium.

#### Paradoxical bronchospasm

Paradoxical bronchospasm may occur with an immediate increase in wheezing and shortness of breath after dosing and may be life-threatening (see section 4.8). This should be treated immediately with a short-acting inhaled bronchodilator. Salmeterol/fluticasone propionate should be discontinued immediately, the patient assessed, and alternative therapy instituted if necessary.

# Beta 2 adrenoreceptor agonists

The pharmacological effects of  $\beta_2$  agonist treatment, such as tremor, palpitations, and headache, have been reported, but tend to be transient and reduce with regular therapy.

# Systemic effects

Systemic effects may occur with any inhaled corticosteroid, particularly at high doses prescribed for long periods. These effects are much less likely to occur than with oral corticosteroids. Possible systemic effects include Cushing's syndrome, Cushingoid features, adrenal suppression, decrease in bone mineral density, cataract and glaucoma, and more rarely, a range of psychological or behavioural effects including psychomotor hyperactivity, sleep disorders, anxiety, depression, or aggression (particularly in children) (see Paediatric population sub-heading below for information on the systemic effects of inhaled corticosteroids in children and adolescents). It is important, therefore, that the patient is reviewed regularly and the dose of inhaled corticosteroid is reduced to the lowest dose at which effective control of asthma is maintained.

# Visual disturbance

Visual disturbance may be reported with systemic and topical corticosteroid use. If a patient presents with symptoms such as blurred vision or other visual disturbances, the patient should be considered for referral to an ophthalmologist for evaluation of possible causes which may include cataract, glaucoma or rare diseases such as central serous chorioretinopathy (CSCR) which have been reported after use of systemic and topical corticosteroids.

# Adrenal function

Prolonged treatment of patients with high doses of inhaled corticosteroids may result in adrenal suppression and acute adrenal crisis. Very rare cases of adrenal suppression and acute adrenal crisis have also been described with doses of fluticasone propionate between 500 micrograms and less than 1000 micrograms. Situations, which could potentially trigger acute adrenal crisis include trauma, surgery, infection, or any rapid reduction in dosage. Presenting symptoms are typically vague and may include anorexia, abdominal pain, weight loss, tiredness, headache, nausea, vomiting, hypotension, decreased level of consciousness, hypoglycaemia, and seizures. Additional systemic corticosteroid treatment should be considered during periods of stress or elective surgery.

The benefits of inhaled fluticasone propionate therapy should minimise the need for oral steroids, but patients transferring from oral steroids may remain at risk of impaired adrenal reserve for a considerable time. Therefore, these patients should be treated with special care and adrenocortical function regularly monitored. Patients who have required high dose emergency corticosteroid therapy in the past may also be at risk. This possibility of residual impairment should always be borne in mind in emergency and elective situations likely to produce stress, and appropriate corticosteroid treatment must be considered. The extent of the adrenal impairment may require specialist advice before elective procedures.

#### Interactions with other medicinal products

Ritonavir can greatly increase the concentration of fluticasone propionate in plasma. Therefore, concomitant use should be avoided, unless the potential benefit to the patient outweighs the risk of systemic corticosteroid side effects. There is also an increased risk of systemic undesirable effects when combining fluticasone propionate with other potent CYP3A inhibitors (see section 4.5).

Concomitant use of systemic ketoconazole significantly increases systemic exposure to salmeterol. This may lead to an increase in the incidence of systemic effects (e.g., prolongation in the QTc interval and palpitations). Concomitant treatment with ketoconazole or other potent CYP3A4 inhibitors should therefore be avoided unless the benefits outweigh the potentially increased risk of systemic undesirable effects of salmeterol treatment (see section 4.5).

# Paediatric population

This medicinal product is indicated for use in adolescents 12 years and older (see section 4.2). However, it should be noted that children and adolescents less than 16 years taking high doses of fluticasone propionate (typically ≥1000 micrograms/day) may be at particular risk. Systemic effects may occur, particularly at high doses prescribed for long periods. Possible systemic effects include Cushing's syndrome, Cushingoid features, adrenal suppression, acute adrenal crisis and growth retardation in children and adolescents and more rarely, a range of psychological or behavioural effects including psychomotor hyperactivity, sleep disorders, anxiety, depression, or aggression. Consideration should be given to referring the child or adolescent to a paediatric respiratory specialist. It is recommended that the height of children receiving prolonged treatment with inhaled corticosteroids is regularly monitored. The dose of inhaled corticosteroid should always be reduced to the lowest dose at which effective control of asthma is maintained.

# Oral infections

Due to the fluticasone propionate component, hoarseness and candidiasis (thrush) of the mouth and throat and, rarely of the oesophagus, can occur in some patients (see section 4.8). Both hoarseness and the incidence of candidiasis of the mouth and throat may be relieved by rinsing the mouth with water and spitting the water out and/or brushing the teeth after using the product. Symptomatic candidiasis of the mouth and throat can be treated with topical anti-fungal therapy whilst still continuing with salmeterol/fluticasone propionate.

#### Lactose contents

This medicinal product contains lactose (see section 4.3). Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicinal product. The excipient lactose may contain small amounts of milk proteins which may cause allergic reactions in those with severe hypersensitivity or allergy to milk protein.

#### 4.5 Interaction with other medicinal products and other forms of interaction

# Interactions with beta blockers

Beta adrenergic blockers may weaken or antagonise the effect of salmeterol. Both non-selective and selective  $\beta$  blockers should be avoided unless there are compelling reasons for their use. Potentially serious

hypokalaemia may result from  $\beta_2$  agonist therapy (see section 4.4). Particular caution is advised in acute severe asthma as this effect may be potentiated by concomitant treatment with xanthine derivatives, steroids, and diuretics.

# Salmeterol

#### Potent CYP3A4 inhibitors

Co-administration of ketoconazole (400 mg orally once daily) and salmeterol (50 micrograms inhaled twice daily) in 15 healthy subjects for 7 days resulted in a significant increase in plasma salmeterol exposure (1.4-fold  $C_{max}$  and 15-fold AUC). This may lead to an increase in the incidence of other systemic effects of salmeterol treatment (e.g. prolongation of QTc interval and palpitations) compared with salmeterol or ketoconazole treatment alone (see section 4.4).

Clinically significant effects were not seen on blood pressure, heart rate, blood glucose, and blood potassium levels. Co-administration with ketoconazole did not increase the elimination half-life of salmeterol or increase salmeterol accumulation with repeat dosing.

The concomitant administration of ketoconazole should be avoided, unless the benefits outweigh the potentially increased risk of systemic effects of salmeterol treatment. There is likely to be a similar risk of interaction with other potent CYP3A4 inhibitors (e.g., itraconazole, telithromycin, ritonavir).

#### Moderate CYP3A4 inhibitors

Co-administration of erythromycin (500 mg orally 3 times a day) and salmeterol (50 micrograms inhaled twice daily) in 15 healthy subjects for 6 days resulted in a small but non-statistically significant increase in salmeterol exposure (1.4-fold  $C_{max}$  and 1.2-fold AUC). Co-administration with erythromycin was not associated with any serious adverse effects.

#### Fluticasone propionate

Under normal circumstances, low plasma concentrations of fluticasone propionate are achieved after inhaled dosing, due to extensive first pass metabolism and high systemic clearance mediated by cytochrome P450 3A4 in the gut and liver. Hence, clinically significant drug interactions mediated by fluticasone propionate are unlikely.

In an interaction study in healthy subjects with intranasal fluticasone propionate, ritonavir (a highly potent cytochrome P450 3A4 inhibitor) administered 100 mg twice daily increased the fluticasone propionate plasma concentrations several hundred-fold, resulting in markedly reduced serum cortisol concentrations. Information about this interaction is lacking for inhaled fluticasone propionate, but a marked increase in fluticasone propionate plasma levels is expected. Cases of Cushing's syndrome and adrenal suppression have been reported. The combination should be avoided unless the benefit outweighs the increased risk of systemic glucocorticoid undesirable effects (see section 4.4).

In a small study in healthy volunteers, the slightly less potent CYP3A inhibitor ketoconazole increased the exposure of fluticasone propionate after a single inhalation by 150%. This resulted in a greater reduction of plasma cortisol as compared with fluticasone propionate alone. Co-treatment with other potent CYP3A inhibitors, such as itraconazole, and moderate CYP3A inhibitors, such as erythromycin, is also expected to increase the systemic fluticasone propionate exposure and the risk of systemic undesirable effects. Caution is recommended and long-term treatment with such drugs should, if possible, be avoided.

Co-treatment with CYP3A inhibitors, including cobicistat-containing products, is expected to increase the risk of systemic side-effects. The combination should be avoided unless the benefit outweighs the increased risk of systemic corticosteroid side-effects, in which case patients should be monitored for systemic corticosteroid effects.

# Interaction with P-glycoprotein inhibitors

Fluticasone propionate and salmeterol are both poor substrates of P-glycoprotein (P-gp). Fluticasone did not show P-gp inhibition potential in in vitro studies. No information is available on salmeterol P-gp inhibition potential. No clinical pharmacology studies with a specific P-gp inhibitor and fluticasone propionate/salmeterol have been conducted.

# Sympathomimetic medicinal products

Concomitant administration of other sympathomimetic medicinal products (alone or as part of combination therapy) can have a potentially additive effect.

# 4.6 Fertility, pregnancy and lactation

#### **Pregnancy**

A moderate amount of data on pregnant women (between 300 to 1000 pregnancy outcomes) indicates no malformative or foeto/neonatal toxicity of salmeterol and fluticasone propionate. Animal studies have shown reproductive toxicity after administration of  $\beta_2$  adrenoreceptor agonists and glucocorticosteroids (see section 5.3).

This medicianl product 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 salmeterol and fluticasone propionate/metabolites are excreted in human milk.

Studies have shown that salmeterol and fluticasone propionate and their metabolites, are excreted into the milk of lactating rats.

A risk to breastfed newborns/infants cannot be excluded. A decision must be made whether to discontinue breast-feeding or to discontinue salmeterol/fluticasone propionate therapy taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman.

# **Fertility**

There are no fertility data in humans. However, animal studies showed no effects of salmeterol or fluticasone propionate on fertility (see section 5.3).

#### 4.7 Effects on ability to drive and use machines

This medicinal product has no or negligible influence on the ability to drive and use machines.

# 4.8 Undesirable effects

# Summary of the safety profile

As this medicinal product contains salmeterol and fluticasone propionate, the type and severity of adverse reactions associated with each of the active substance may be expected. No increased incidence of adverse reactions has been seen following concurrent administration of the two compounds.

The most frequently reported adverse reactions were nasopharyngitis (6.3%), headache (4.4%), cough (3.7%) and oral candidiasis (3.4%).

# Tabulated list of adverse reactions

Adverse reactions which have been associated with fluticasone propionate and salmeterol are presented below, listed by system organ class and frequency. Frequencies are defined as: very common ( $\geq 1/10$ ), common ( $\geq 1/100$  to < 1/10), uncommon ( $\geq 1/100$ ), rare ( $\geq 1/10,000$  to < 1/1,000), very rare (< 1/10,000) and not known (cannot be estimated from the available data). Frequencies were derived from clinical trial data.

**Table 1: Tabulated list of adverse reactions** 

System Organ Class	Adverse reaction	Frequency
	Oral candidiasis <sup>a</sup>	Common <sup>1</sup>
Infections and infestations	Influenza	Common
	Nasopharyngitis	Common
	Rhinitis	Common
	Sinusitis	Common
	Pharyngitis	Uncommon
	Respiratory tract infection	Uncommon
	Oesophageal candidiasis	Rare
	Cushing's syndrome, Cushingoid features,	Ture
Endocrine disorders	adrenal suppression and growth retardation	Rare <sup>1</sup>
Endoerine disorders	in children and adolescents	Turo
Metabolism and nutrition	Hypokalaemia	Common <sup>2</sup>
disorders	Hyperglycaemia	Uncommon
disorders	Anxiety	Uncommon
	Insomnia	Uncommon
Psychiatric disorders	Behavioural changes, including hyperactivity	Oncommon
	and irritability, especially in children	Uncommon
	Headache	Common
Nervous system disorders	Dizziness	Common
ivervous system disorders	Tremor	Uncommon
	Cataract	Uncommon
Eva disardara	Glaucoma	Rare <sup>1</sup>
Eye disorders	Vision blurred	Not known <sup>1</sup>
		Uncommon <sup>1</sup>
	Paloitations	Uncommon
	Tachycardia	
Cardiac disorders	Atrial fibrillation	Uncommon
•	Cardiac arrhythmias (including	D
	supraventricular tachycardia and	Rare
	extrasystoles)	C
	Cough	Common
	Throat irritation	Common
Respiratory, thoracic and	Hoarseness/dysphonia	Common
mediastinal disorders	Oropharyngeal pain	Common
	Rhinitis allergic	Uncommon
	Nasal congestion	Uncommon
. 07	Paradoxical bronchospasm	Rare <sup>1</sup>
Gastrointestinal disorders	Abdominal pain upper	Uncommon
	Dyspepsia	Uncommon
Skin and subcutaneous tissue disorders	Dermatitis contact	Uncommon
Musculoskeletal and	Back pain	Common
connective tissue disorders	Myalgia	Common
connective tissue disorders	Pain in extremity	Uncommon
Injury, poisoning and procedural complications	Laceration	Uncommon

- a. Includes oral candidiasis, oral fungal infection, oropharyngeal candidiasis, and oropharyngitis fungal
- 1. See section 4.4
- 2. See section 4.5

# Description of selected adverse reactions

Specific  $\beta_2$  agonist treatment effects

The pharmacological effects of  $\beta_2$  agonist treatment, such as tremor, palpitations and headache, have been reported, but tend to be transient and reduce with regular therapy.

Paradoxical bronchospasm

Paradoxical bronchospasm may occur with an immediate increase in wheezing and shortness of breath after dosing (see section 4.4).

Inhaled corticosteroid treatment effects

Due to the fluticasone propionate component, hoarseness and candidiasis (thrush) of the mouth and throat and, rarely, of the oesophagus, can occur in some patients (see section 4.4).

# Paediatric population

The safety and efficacy of BroPair Spiromax in paediatric patients below the age of 12 years have not been established.

Inhaled corticosteroids, including fluticasone propionate, a component of BroPair Spiromax, may cause a reduction in growth velocity in adolescents (see section **4.4 Special warnings and precautions for use**). The growth of paediatric patients receiving orally inhaled corticosteroids, including salmeterol/fluticasone propionate, should be monitored routinely. To minimize the systemic effects of orally inhaled corticosteroids, including salmeterol/fluticasone propionate titrate each patient's dosage to the lowest dosage that effectively controls his/her symptoms.

#### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

# 4.9 Overdose

There are no data available from clinical trials on overdose with BroPair Spiromax, however data on overdose with both active substances are given below:

#### Salmeterol

The signs and symptoms of salmeterol overdose are dizziness, increases in systolic blood pressure, tremor, headache and tachycardia. If salmeterol/fluticasone propionate therapy has to be withdrawn due to overdose of the  $\beta_2$  agonist component of the medicinal product, provision of appropriate replacement steroid therapy should be considered. Additionally, hypokalaemia can occur and therefore serum potassium levels should be monitored. Potassium replacement should be considered.

#### Fluticasone propionate

Acute

Acute inhalation of fluticasone propionate doses in excess of those recommended may lead to temporary suppression of adrenal function. This does not need emergency action as adrenal function is recovered in a few days, as verified by plasma cortisol measurements.

#### Chronic overdose

Adrenal reserve should be monitored and treatment with a systemic corticosteroid may be necessary. When stabilised, treatment should be continued with an inhaled corticosteroid at the recommended dose. (see section 4.4: "Adrenal function").

In cases of both acute and chronic fluticasone propionate overdose, salmeterol/fluticasone propionate therapy should be continued at a suitable dose for symptom control.

#### 5. PHARMACOLOGICAL PROPERTIES

# 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Drugs for obstructive airway diseases, Adrenergies in combination with corticosteroids or other drugs, excl. anticholinergies, ATC code: R03AK06

# Mechanism of action and pharmacodynamic effects

BroPair Spiromax contains salmeterol and fluticasone propionate, which have differing modes of action. The respective mechanisms of action of both active substances are discussed below.

Salmeterol is a selective long-acting (12 hour)  $\beta_2$  adrenoceptor agonist with a long side chain which binds to the exo-site of the receptor.

Fluticasone propionate given by inhalation at recommended doses has a glucocorticoid anti-inflammatory action within the lungs.

# Clinical efficacy and safety

BroPair Spiromax Asthma clinical trials

The safety and efficacy of BroPair Spiromax were evaluated in 3004 patients with asthma. The development program included 2 confirmatory trials of 12-weeks duration, a 26-week safety trial and 3 dose-ranging trials. The efficacy of BroPair Spiromax is based primarily on the the confirmatory trials described below.

Six doses of fluticasone propionate ranging from 16 mcg to 434 mcg (expressed as metered doses) administered twice daily via multidose dry powder inhaler (MDPI) and an open-label fluticasone propionate dry powder comparator (100mcg or 250mcg) were evaluated in 2 randomised, double-blind, placebo-controlled 12-week trials. Trial 201 was conducted in patients who were uncontrolled at baseline and had been treated by short-acting  $\beta_2$  agonist alone or in combination with non-corticosteroid asthma medication. Low dose inhaled corticosteroid (ICS) patients may have been included after a minimum of 2 weeks washout. Trial 202 was conducted in patients who were uncontrolled at baseline and had been treated with high dose ICS with or without a long-acting beta-agonist (LABA). The metered doses for fluticasone propionate Spiromax [Fp MDPI] (16, 28, 59, 118, 225, and 434 mcg) used in Trial 201 and Trial 202 are different from the metered doses for the comparator products (fluticasone inhalation powder) and the Phase 3 investigational products which are the basis of the label claim metered dose (, 113, and 232 mcg for fluticasone propionate). The changes in doses between Phase 2 and 3 resulted from optimisation of the manufacturing process.

The efficacy and safety of 4 doses of salmeterol xinafoate were evaluated in a double-blind, 6-period crossover study compared with single dose fluticasone propionate Spiromax and open-label fluticasone propionate/salmeterol 100/50 mcg dry powder inhaler as a comparator in patients with persistent asthma. The salmeterol doses studied were 6.8 mcg, 13.2 mcg, 26.8 mcg, and 57.4 mcg in combination with fluticasone

propionate 118 mcg delivered by MDPI (expressed as metered dose). The metered doses for salmeterol (6.8, 13.2, 26.8, and 57.4 mcg) used in this study are slightly different from the metered doses for the comparator products (fluticasone/salmeterol inhalation powder) and the Phase 3 investigational products which are the basis of the label claim (113, and 232 mcg for fluticasone propionate and 14 mcg for salmeterol). As a consequence of optimisation of the manufacturing process, the Phase 3 and commercial products better match the strengths of the comparator products. Plasma for pharmacokinetic characterization was obtained at each dosing period.

Adult and Adolescent Patients Aged 12 Years and Older:

Two Phase 3 clinical trials were conducted; 2 trials comparing the fixed-dose combination with fluticasone propionate alone or placebo (Trial 1 and Trial 2).

Trials comparing BroPair Spiromax (FS MDPI) with fluticasone propionate alone or placebo Two double-blind, parallel-group clinical trials, Trial 1 and Trial 2, were conducted with FS MDPI in 1375 adult and adolescent patients (aged 12 years and older, with baseline FEV<sub>1</sub> 40% to 85% of predicted normal) with asthma that was not optimally controlled on their current therapy. All treatments were given as 1 inhalation twice a day from the Spiromax inhaler, and other maintenance therapies were discontinued.

Trial 1: This randomised, double-blind, placebo-controlled, 12-week, efficacy and safety trial compared Fp MDPI 55 mcg and 113 mcg (1 inhalation twice a day) with FS MDPI (14/55 mcg and 14/113 mcg (1 inhalation twice a day) and placebo in adolescents (aged 12 years and older) and adult patients with persistent symptomatic asthma despite low-dose or mid-dose inhaled corticosteroid or inhaled corticosteroid/LABA therapy. Patients received single-blinded placebo MDPI and were switched from their baseline ICS therapy to beclomethasone dipropionate inhalation aerosol 40 mcg twice daily during the run-in period. Patients were randomly assigned to receive placebo or mid-strength dose treatments as follows: 130 received placebo, 130 received Fp MDPI 113 mcgand 129 received FS MDPI 14/113 mcg. Baseline FEV<sub>1</sub> measurements were similar across treatments groups. The primary endpoints for this trial were the change from baseline in trough FEV<sub>1</sub> at week 12 for all patients and standardized baseline-adjusted FEV<sub>1</sub> AUEC<sub>0-12h</sub> at week 12 analyzed for a subset of 312 patients who performed post-dose serial spirometry.

Table 2: Primary analysis of change from baseline in trough  $FEV_1$  at week 12 by treatment group Trial 1 (FAS)

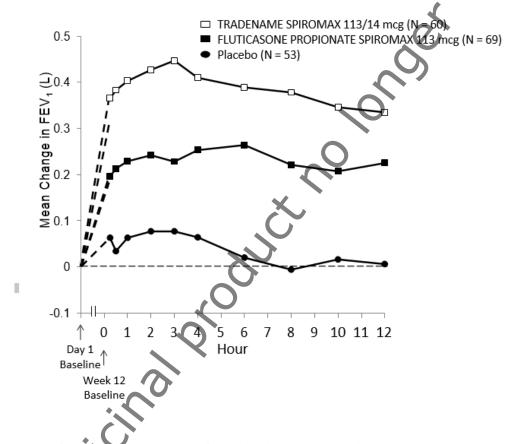
		Fp MDPI	FS MDPI
Variable Statistic	Placebo (N=129)	113 mcg BID (N=129)	14/113 mcg BID (N=126)
Change in trough FEV <sub>1</sub> (L) at week 12	Q'		
LS mean	0.053	0.204	0.315
Comparison to placebo			
Difference of LS mean		0.151	0.262
95% CI		(0.057, 0.244)	(0.168, 0.356)
p-value		0.0017	0.0000
Comparison to Fp MDPI			
			Compared with 113 mcg:
Difference of LS mean			0.111

95% CI		(0.017, 0.206)
p-value		0.0202

Comparison of combination therapy with monotherapy were not controlled for multiplicity.  $FEV_1$  = forced expiratory volume in 1 second; FAS = full analysis set; Fp MDPI = fluticasone propionate multidose dry powder inhaler; FS MDPI = fluticasone propionate/salmeterol multidose dry powder inhaler; BID = twice daily; n = number; LS = least squares; CI = confidence interval

Improvements in lung function occurred within 15 minutes of the first dose (15 minutes post-dose, the difference in LS mean change from baseline in  $FEV_1$  was 0.164 L for FS MDPI 14/113 mcg compared with placebo(unadjusted p-value <0.0001). Maximum improvement in  $FEV_1$  generally occurred within 6 hours for FS MDPI 14/113 mcg, and improvements were sustained over the 12 hours of testing at weeks 1 and 12 (Figure 1). No diminution in the 12-hour bronchodilator effect was observed following 12 weeks of therapy.

Figure 1: Primary analysis serial spirometry: Mean change from baseline in FEV1 (L) at week 12 by time point and treatment group Trial 1 (FAS; Serial spirometry subset)



 $FAS = full analysis set; FEV_1 = forced expiratory volume in 1 second$ 

Trial 2: This randomised, double-blind, placebo-controlled, 12-week, efficacy and safety trial compared Fluticasone Propionate Multidose Dry Powder Inhaler (Fp MDPI) 113 mcg and 232 mcg (1 inhalation twice a day) with Salmeterol/Fluticasone Multidose Dry Powder Inhaler (FS MDPI) 14/113 mcg and 14/232 mcg (1 inhalation twice a day) and placebo in adolescents and adult patients with persistent symptomatic asthma despite inhaled corticosteroid or inhaled corticosteroid/LABA therapy. Patients received single-blinded placebo MDPI and were switched from their baseline ICS therapy to Fp MDPI 55 mcg twice daily during the run-in period. Patients were randomly assigned to receive treatment as follows: 145 patients received placebo, 146 patients received Fp MDPI 113 mcg, 146 patients received Fp MDPI 232 mcg, 145 patients received FS MDPI 14/113 mcg, and 146 patients received FS MDPI 14/232mcg. Baseline FEV<sub>1</sub> measurements were similar across treatments: Fp MDPI 113 mcg 2.069 L, Fp MDPI 232 mcg 2.075 L, FS

MDPI 14/113 mcg 2.157 L, FS MDPI 14/232 mcg 2.083 L, and placebo 2.141 L. The primary endpoints for this trial were the change from baseline in trough  $FEV_1$  at week 12 for all patients and standardized baseline-adjusted  $FEV_1$  AUEC<sub>0-12h</sub> at week 12 analyzed for a subset of 312 patients who performed post-dose serial spirometry.

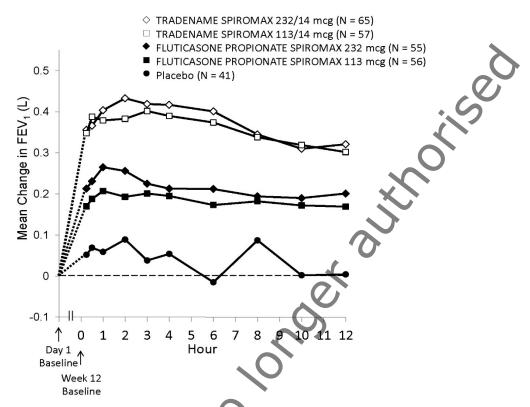
Table 3: Primary analysis of change from baseline in trough FEV<sub>1</sub> at Week 12 by treatment group Trial 2 (FAS)

,		Fp MDPI		FS MDPI	
Variable Statistic	Placebo (N=143)	113 mcg BID (N=145)	232 mcg BID (N=146)	14/113 mcg BID (N=141)	14/232 mcg BID (N=145)
Change in trough FEV <sub>1</sub> (L) at week 12				20,	
LS mean	-0.004	0.119	0.179	0.271	0.272
Comparison to placebo				<b>)</b>	
Difference of LS mean		0.123	0.183	0.274	0.276
95% CI		(0.038, 0.208)	(0.098, 0.268)	(0.189, 0.360)	(0.191, 0.361)
p-value		0.0047	0.0000	0.0000	0.0000
Comparison to Fp MDPI					
				Compared to 113 mcg:	Compared to 232 mcg:
Difference of LS mean		7		0.152	0.093
95% CI	2			(0.066, 0.237)	(0.009, 0.178)
p-value				0.0005	0.0309

Comparison of combination therapy with monotherapy were not controlled for multiplicity.  $FEV_1 =$  forced expiratory volume in 1 second; FAS = full analysis set;  $Fp \ MDPI =$  fluticasone propionate multidose dry powder inhaler;  $FS \ MDPI =$  fluticasone propionate/salmeterol multidose dry powder inhaler; BID = twice daily; n = number; LS = least squares; CI = confidence interval

Improvements in lung function occurred within 15 minutes of the first dose (15 minutes post-dose, the difference in LS mean change from baseline in  $FEV_1$  was 0.160 L and 0.187 L compared with placebo for FS MDPI 14/113 mcg and 14/232 mcg, respectively; unadjusted p-value <0.0001 for both doses compared with placebo. Maximum improvement in  $FEV_1$  generally occurred within 3 hours for both FS MDPI dose groups, and improvements were sustained over the 12 hours of testing at weeks 1 and 12 (Figure 2). No diminution in the 12 hour bronchodilator effect was observed with either FS MDPI dose as assessed by  $FEV_1$  following 12 weeks of therapy.

Figure 2: Primary analysis serial spirometry: Mean change from baseline in FEV1 (L) at week 12 by time point and treatment group trial 2 (FAS; Serial spirometry subset)



 $FAS = full analysis set; FEV_1 = forced expiratory volume in 1 second$ 

# Paediatric population

Patients aged 12 through 17 years have been studied. The pooled results from both confirmatory trials for change from baseline in  $FEV_1$  in patient aged 12-17 years are presented below (Table 4). At week 12, changes from baseline in trough  $FEV_1$  were larger for all Fp MDPI and FS MDPI dose groups than for the placebo group across all age groups in both studies similar to the overall results of the trials.

Table 4: Summary of actual values and change from baseline in trough  $FEV_1$  at week 12 by treatment group and age 12-17 Years  $(FAS)^a$ 

Time point	Dlagaha	Fluticasone Propionate Spiromax		BroPair S	Spiromax
Statistic	Placebo	113 mcg bid	232 mcg bid	14/113 mcg bid	14/232 mcg bid
Baseline	~				
n	22	27	10	24	12
Mean (SD)	2.330 (0.3671)	2.249 (0.5399)	2.224 (0.4362)	2.341 (0.5513)	2.598 (0.5210)
Median	2.348	2.255	2.208	2.255	2.425
Min, Max	1.555, 3.075	0.915, 3.450	1.615, 3.115	1.580, 3.775	1.810, 3.695
Week 12 Change					
n	22	27	10	24	12
Mean (SD)	0.09 (0.3541)	0.378 (0.4516)	0.558 (0.5728)	0.565 (0.4894)	0.474 (0.5625)
Median	0.005	0.178	0.375	0.553	0.375
Min, Max	-0.850, 0.840	-0.115, 1.650	-0.080, 1.915	-0.265, 1.755	-0.295, 1.335

<sup>&</sup>lt;sup>a</sup> Full Analysis Set = FAS

The European Medicines Agency has waived the obligation to submit the results of studies with BroPair Spiromax in all subsets of the paediatric population for the treatment of asthma (see section 4.2 for information on paediatric use).

#### 5.2 Pharmacokinetic properties

For pharmacokinetic purposes each component can be considered separately.

#### Salmeterol

Salmeterol acts locally in the lung therefore plasma levels are not an indication of therapeutic effects. In addition, there are only limited data available on the pharmacokinetics of salmeterol because of the technical difficulty of assaying the drug in plasma due to the low plasma concentrations at therapeutic doses (approximately 200 picogram/mL or less) achieved after inhaled dosing.

# Fluticasone propionate

The absolute bioavailability of a single dose of inhaled fluticasone propionate in healthy subjects varies between approximately 5% to 11% of the nominal dose depending on the inhalation device used. In patients with asthma a lesser degree of systemic exposure to inhaled fluticasone propionate has been observed.

# **Absorption**

Systemic absorption occurs mainly through the lungs and is initially rapid then prolonged. The remainder of the inhaled dose of fluticasone propionate may be swallowed but contributes minimally to systemic exposure due to the low aqueous solubility and presystemic metabolism, resulting in oral availability of less than 1%. There is a linear increase in systemic exposure with increasing inhaled dose.

#### **Distribution**

The disposition of fluticasone propionate is characterised by high plasma clearance (1150 mL/min), a large volume of distribution at steady-state (approximately 300 L), and a terminal half-life of approximately 8 hours. Plasma protein binding is 91%.

### **Biotransformation**

Fluticasone propionate is cleared very rapidly from the systemic circulation. The main pathway is metabolism to an inactive carboxylic acid metabolite, by the cytochrome P450 3A4. Other unidentified metabolites are also found in the faeces.

# Elimination

The renal clearance of fluticasone propionate is negligible. Less than 5% of the dose is excreted in urine, mainly as metabolites. The main part of the dose is excreted in faeces as metabolites and unchanged drug.

# Paediatric population

A pharmacokinetic analysis of patients aged 12 through 17 was performed. Although the subgroups were small, systemic exposure of fluticasone propionate and salmeterol for the 12 to 17 years and  $\geq$ 18 years subgroups in all treatments was not markedly different to the overall study population. The apparent elimination half-life (t½) was not impacted by age.

# 5.3 Preclinical safety data

The only safety concerns for human use derived from animal studies of salmeterol and fluticasone propionate given separately were effects associated with exaggerated pharmacological actions.

Studies in laboratory animals (minipigs, rodents, and dogs) have demonstrated the occurrence of cardiac arrhythmias and sudden death (with histologic evidence of myocardial necrosis) when beta-agonists and methylxanthines are administered concurrently. The clinical relevance of these findings is unknown.

In animal reproduction studies, glucocorticosteroids have been shown to induce decreased foetal body weight and/or malformations (cleft palate, skeletal malformations) in rats, mice, and rabbits with subcutaneously administered maternal toxic doses. However, these animal experimental results do not seem to be relevant for man given recommended doses and fluticasone propionate administered via inhalation to rats decreased foetal body weight, but did not induce teratogenicity at a maternal toxic dose less than the maximum recommended human daily inhaled dose on a body surface area (mg/m²) basis. Experience with oral corticosteroids suggests that rodents are more prone to teratogenic effects from corticosteroids than humans. Animal studies with salmeterol have shown embryo foetal toxicity only at high exposure levels. Following co-administration, increased incidences of transposed umbilical artery and incomplete ossification of occipital bone were found in rats at doses associated with known glucocorticoid induced abnormalities.

#### 6. PHARMACEUTICAL PARTICULARS

#### 6.1 List of excipients

Lactose monohydrate (which may include milk proteins).

#### 6.2 Incompatibilities

Not applicable.

#### 6.3 Shelf life

24 months

After opening the foil wrap: 2 months.

# 6.4 Special precautions for storage

Do not store above 25°C.

Keep the mouthpiece cover closed after use.

#### 6.5 Nature and contents of container

The inhaler is white with a semi-transparent yellow mouthpiece cover. The parts of the inhaler coming into contact with the inhalation powder or the patient mucosa are made of acrylonitrile butadiene styrene (ABS), polyethylene (PE), and polypropylene (PP). Each inhaler contains 60 doses and is foil-wrapped with desiccant.

Packs of 1 inhaler.

Multipacks containing 3 (3 packs of 1) inhalers.

Not all pack sizes may be marketed.

### 6.6 Special precautions for disposal and other handling

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

# 7. MARKETING AUTHORISATION HOLDER

Teva B.V., Swensweg 5, 2031 GA Haarlem The Netherlands

# 8. MARKETING AUTHORISATION NUMBER(S)

EU/1/21/1534/001 EU/1/21/1534/002 EU/1/21/1534/003 EU/1/21/1534/004

# 9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 26 March 2021

#### 10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency <a href="http://www.ema.europa.com">http://www.ema.europa.com</a>

EX II
SIBLE FOR BATCH RELEASE
ONS REGARE

ANNEX II

- A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

#### A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer(s) responsible for batch release

Norton (Waterford) Limited T/A Teva Pharmaceuticals Ireland Unit 14/15, 27/35 and 301 IDA Industrial Park Cork Road Waterford Republic of Ireland

Teva Operations Poland Sp. z o.o. Mogilska 80 Str. 31-546 Kraków Poland

The printed package leaflet of the medicinal product must state the name and address of the manufacturer responsible for the release of the concerned batch.

# B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription.

#### C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

• Periodic safety update reports (PSURs)

The requirements for submission of PSURs for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

# D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

# • Risk management plan (RMP

The marketing authorisation holder (MAH) shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the marketing authorisation and any agreed subsequent updates of the RMP.

The marketing authorisation holder shall submit the first periodic safety update report for this product within 6 months following authorisation.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

ANNEX III
LABELLING AND PACKAGE LEAFLET

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#### PARTICULARS TO APPEAR ON THE OUTER PACKAGING

#### **OUTER CARTON**

#### 1. NAME OF THE MEDICINAL PRODUCT

BroPair Spiromax 12.75 micrograms/100 micrograms inhalation powder salmeterol/fluticasone propionate

# 2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each delivered dose (the dose from the mouthpiece) contains 12.75 micrograms of salmeterol (as salmeterol xinafoate) and 100 micrograms of fluticasone propionate.

Each metered dose contains 14 micrograms of salmeterol (as salmeterol xinafoate) and 113 micrograms of fluticasone propionate.

#### 3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information

# 4. PHARMACEUTICAL FORM AND CONTENTS

Inhalation powder.

1 inhaler.

Each inhaler contains 60 doses.

# 5. METHOD AND ROUTE(S) OF ADMINISTRATION

Inhalation use.

Read the package leaflet before use.

# 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

# 7. OTHER SPECIAL WARNING(S), IF NECESSARY

Use as advised by your doctor.

Front panel: Not for use in children under 12 years of age.

Do not swallow the desiccant.

#### 8. EXPIRY DATE

**EXP** 

Use the product within 2 months of removing from foil wrapping.

9. SPECIAL STORAGE CONDITIONS
Do not store above 25°C. Keep the mouthpiece cover closed after the removal of foil wrap.
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Teva B.V., Swensweg 5, 2031GA Haarlem, The Netherlands
12. MARKETING AUTHORISATION NUMBER(S)
EU/1/21/1534/001
13. BATCH NUMBER
Lot
14. GENERAL CLASSIFICATION FOR SUPPLY
X
15. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
BroPair Spiromax 12.75 micrograms/100 micrograms inhalation powder
17. UNIQUE IDENTIFIER – 2D BARCODE
2D barcode carrying the unique identifier included.
18. UNIQUE IDENTIFIER – HUMAN READABLE DATA
PC SN NN
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

#### **OUTER CARTON FOR MULTIPACK (WITH BLUE BOX)**

# 1. NAME OF THE MEDICINAL PRODUCT

BroPair Spiromax 12.75 micrograms/100 micrograms inhalation powder salmeterol/fluticasone propionate

# 2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each delivered dose (the dose from the mouthpiece) contains 12.75 micrograms of salmeterol (as salmeterol xinafoate) and 100 micrograms of fluticasone propionate.

Each metered dose contains 14 micrograms of salmeterol (as salmeterol xinafoate) and 113 micrograms of fluticasone propionate.

# 3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information

# 4. PHARMACEUTICAL FORM AND CONTENTS

Inhalation powder.

Multipack: 3 (3 packs of 1) inhalers. Each inhaler contains 60 doses.

#### 5. METHOD AND ROUTE(S) OF ADMINISTRATION

Inhalation use.

Read the package leaflet before use

# 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

# 7. OTHER SPECIAL WARNING(S), IF NECESSARY

Use as advised by your doctor.

Front panel: Not for use in children under 12 years of age.

Do not swallow the desiccant.

#### 8. EXPIRY DATE

**EXP** 

Use the product within 2 months of removing from foil wrapping.

9. SPECIAL STORAGE CONDITIONS
Do not store above 25°C. Keep the mouthpiece cover closed after the removal of foil wrap.
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR
WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
0
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Teva B.V., Swensweg 5, 2031GA Haarlem, The Netherlands
12. MARKETING AUTHORISATION NUMBER(S)
EU/1/21/1534/002
13. BATCH NUMBER
Lot
14. GENERAL CLASSIFICATION FOR SUPPLY
15. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
BroPair Spiromax 12.75 micrograms/100 micrograms inhalation powder
17. UNIQUE IDENTIFIER – 2D BARCODE
2D barcode carrying the unique identifier included.
10 HANNALE IDENTELEED HUMAN DEADADLE DATA
18. UNIQUE IDENTIFIER – HUMAN READABLE DATA
PC
SN NN

#### PARTICULARS TO APPEAR ON THE OUTER PACKAGING

# INTERMEDIATE CARTON OF MULTIPACK (WITHOUT BLUE BOX)

#### 1. NAME OF THE MEDICINAL PRODUCT

BroPair Spiromax 12.75 micrograms/100 micrograms inhalation powder salmeterol/fluticasone propionate

# 2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each delivered dose (the dose from the mouthpiece) contains 12.75 micrograms of salmeterol (as salmeterol xinafoate) and 100 micrograms of fluticasone propionate.

Each metered dose contains 14 micrograms of salmeterol (as salmeterol xinafoate) and 113 micrograms of fluticasone propionate.

#### 3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information

#### 4. PHARMACEUTICAL FORM AND CONTENTS

Inhalation powder.

1 inhaler. Component of a multipack, can't be sold separately.

Each inhaler contains 60 doses.

# 5. METHOD AND ROUTE(S) OF ADMINISTRATION

Inhalation use.

Read the package leaflet before use

# 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

# 7. OTHER SPECIAL WARNING(S), IF NECESSARY

Use as advised by your doctor.

Front panel: Not for use in children under 12 years of age.

Do not swallow the desiccant.

#### 8. EXPIRY DATE

**EXP** 

Use the product within 2 months of removing from foil wrapping.

9. SPECIAL STORAGE CONDITIONS
Do not store above 25°C. Keep the mouthpiece cover closed after the removal of foil wrap.
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Teva B.V., Swensweg 5, 2031GA Haarlem, The Netherlands
12. MARKETING AUTHORISATION NUMBER(S)
EU/1/21/1534/002
13. BATCH NUMBER
Lot
14. GENERAL CLASSIFICATION FOR SUPPLY
15. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
BroPair Spiromax 12.75 micrograms/100 micrograms inhalation powder
17. UNIQUE IDENTIFIER – 2D BARCODE
18. UNIQUE IDENTIFIER – HUMAN READABLE DATA
41eo.

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS
FOIL
1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION
BroPair Spiromax 12.75 micrograms/100 micrograms inhalation powder salmeterol/fluticasone propionate
Inhalation use
2. METHOD OF ADMINISTRATION
Read the package leaflet before use.
3. EXPIRY DATE
EXP
4. BATCH NUMBER
Lot
5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
Contains 1 inhaler.
6. OTHER
Keep the mouthpiece cover closed and use within 2 months of removing from foil wrapping.
Teva B.V.

INHALER
1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION
BroPair Spiromax 12.75 micrograms/100 micrograms inhalation powder salmeterol/fluticasone propionate
Inhalation use
2. METHOD OF ADMINISTRATION
Read the package leaflet carefully before use.
3. EXPIRY DATE
EXP
4. BATCH NUMBER
Lot
5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
60 doses
6. OTHER
Contains lactose.
Teva B.V.
Start:
Contains lactose.  Teva B.V.  Start:

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

#### PARTICULARS TO APPEAR ON THE OUTER PACKAGING

#### **OUTER CARTON**

#### 1. NAME OF THE MEDICINAL PRODUCT

BroPair Spiromax 12.75 micrograms/202 micrograms inhalation powder salmeterol/fluticasone propionate

# 2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each delivered dose (the dose from the mouthpiece) contains 12.75 micrograms of salmeterol (as salmeterol xinafoate) and 202 micrograms of fluticasone propionate.

Each metered dose contains 14 micrograms of salmeterol (as salmeterol xinafoate) and 232 micrograms of fluticasone propionate.

#### 3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information

# 4. PHARMACEUTICAL FORM AND CONTENTS

Inhalation powder.

1 inhaler.

Each inhaler contains 60 doses.

# 5. METHOD AND ROUTE(S) OF ADMINISTRATION

Inhalation use.

Read the package leaflet before use.

# 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

# 7. OTHER SPECIAL WARNING(S), IF NECESSARY

Use as advised by your doctor.

Front panel: Not for use in children under 12 years of age.

Do not swallow the desiccant.

#### 8. EXPIRY DATE

EXP  Use the product within 2 months of removing from feil wronning
Use the product within 2 months of removing from foil wrapping.
9. SPECIAL STORAGE CONDITIONS
Do not store above 25°C. Keep the mouthpiece cover closed after the removal of foil wrap.
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Teva B.V., Swensweg 5, 2031GA Haarlem, The Netherlands
12. MARKETING AUTHORISATION NUMBER(S)
EU/1/21/1534/003
13. BATCH NUMBER
Lot
14. GENERAL CLASSIFICATION FOR SUPPLY
15. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
BroPair Spiromax 12.75 micrograms/202 micrograms inhalation powder
17. UNIQUE IDENTIFIER – 2D BARCODE
2D barcode carrying the unique identifier included.
18. UNIQUE IDENTIFIER – HUMAN READABLE DATA
PC SN NN

#### PARTICULARS TO APPEAR ON THE OUTER PACKAGING

# **OUTER CARTON FOR MULTIPACK (WITH BLUE BOX)**

#### 1. NAME OF THE MEDICINAL PRODUCT

BroPair Spiromax 12.75 micrograms/202 micrograms inhalation powder salmeterol/fluticasone propionate

# 2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each delivered dose (the dose from the mouthpiece) contains 12.75 micrograms of salmeterol (as salmeterol xinafoate) and 202 micrograms of fluticasone propionate.

Each metered dose contains 14 micrograms of salmeterol (as salmeterol xinafoate) and 232 micrograms of fluticasone propionate.

#### 3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information

# 4. PHARMACEUTICAL FORM AND CONTENTS

Inhalation powder.

Multipack: 3 (3 packs of 1) inhalers. Each inhaler contains 60 doses.

# 5. METHOD AND ROUTE(S) OF ADMINISTRATION

Inhalation use.

Read the package leaflet before use

# 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

# 7. OTHER SPECIAL WARNING(S), IF NECESSARY

Use as advised by your doctor.

Front panel: Not for use in children under 12 years of age.

Do not swallow the desiccant.

EXP Use the product within 2 months of removing from foil wrapping.
9. SPECIAL STORAGE CONDITIONS
Do not store above 25°C. Keep the mouthpiece cover closed after the removal of foil wrap.
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Teva B.V., Swensweg 5, 2031GA Haarlem, The Netherlands
12. MARKETING AUTHORISATION NUMBER(S)
EU/1/21/1534/004
13. BATCH NUMBER
Lot
14. GENERAL CLASSIFICATION FOR SUPPLY
8
15. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
BroPair Spiromax 12.75 micrograms/202 micrograms inhalation powder
17. UNIQUE IDENTIFIER – 2D BARCODE
2D barcode earrying the unique identifier included.
18. UNIQUE IDENTIFIER – HUMAN READABLE DATA
PC SN NN

8.

EXPIRY DATE

#### PARTICULARS TO APPEAR ON THE OUTER PACKAGING

# INTERMEDIATE CARTON OF MULTIPACK (WITHOUT BLUE BOX)

#### 1. NAME OF THE MEDICINAL PRODUCT

BroPair Spiromax 12.75 micrograms/202 micrograms inhalation powder salmeterol/fluticasone propionate

# 2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each delivered dose (the dose from the mouthpiece) contains 12.75 micrograms of salmeterol (as salmeterol xinafoate) and 202 micrograms of fluticasone propionate.

Each metered dose contains 14 micrograms of salmeterol (as salmeterol xinafoate) and 232 micrograms of fluticasone propionate.

#### 3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information

# 4. PHARMACEUTICAL FORM AND CONTENTS

Inhalation powder.

1 inhaler. Component of a multipack, can't be sold separately.

Each inhaler contains 60 doses.

# 5. METHOD AND ROUTE(S) OF ADMINISTRATION

Inhalation use.

Read the package leaflet before use.

# 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

# 7. OTHER SPECIAL WARNING(S), IF NECESSARY

Use as advised by your doctor.

Front panel: Not for use in children under 12 years of age.

Do not swallow the desiccant.

EXP
Use the product within 2 months of removing from foil wrapping.
9. SPECIAL STORAGE CONDITIONS
Do not store above 25°C. Keep the mouthpiece cover closed after the removal of foil wrap.
Do not store above 25°C. Reep the mountiplece cover closed after the removal of foll wrap.
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
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13. BATCH NUMBER
Lot
14. GENERAL CLASSIFICATION FOR SUPPLY
15. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
BroPair Spiromax 12.75 micrograms/202 micrograms inhalation powder
17. UNIQUE IDENTIFIER – 2D BARCODE
18. UNIQUE IDENTIFIER – HUMAN READABLE DATA

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS
FOIL
1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION
BroPair Spiromax 12.75 micrograms/202 micrograms inhalation powder salmeterol/fluticasone propionate
Inhalation use
2. METHOD OF ADMINISTRATION
Read the package leaflet before use.
3. EXPIRY DATE
EXP
4. BATCH NUMBER
Lot
5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
Contains 1 inhaler.
6. OTHER
Keep the mouthpiece cover closed and use within 2 months of removing from foil wrapping.
Teva B.V.

INHALER
1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION
BroPair Spiromax 12.75 micrograms/202 micrograms inhalation powder salmeterol/fluticasone propionate
Inhalation use
2. METHOD OF ADMINISTRATION
Read the package leaflet carefully before use.
3. EXPIRY DATE
EXP
4. BATCH NUMBER
Lot
5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
60 doses
6. OTHER
Contains lactose.
Teva B.V.
Start:
Contains lactose.  Teva B.V.  Start:

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

B. PACKAGE LEAFNET AUXILIANIES OF THE PACKAGE LEAFNET OF THE PACKAGE

## Package leaflet: Information for the patient

# BroPair Spiromax 12.75 micrograms/100 micrograms inhalation powder salmeterol/fluticasone propionate

Read all of this leaflet carefully before you start using this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, pharmacist or nurse.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

#### What is in this leaflet

- 1. What BroPair Spiromax is and what it is used for
- 2. What you need to know before you use BroPair Spiromax
- 3. How to use BroPair Spiromax
- 4. Possible side effects
- 5. How to store BroPair Spiromax
- 6. Contents of the pack and other information

# 1. What BroPair Spiromax is and what it is used for

BroPair Spiromax contains 2 active substances: salmeterol and fluticasone propionate:

- Salmeterol is a long-acting bronchodilator. Bronchodilators help the airways into the lungs to stay open. This makes it easier for air to get in and out. The effects of salmeterol last for at least 12 hours.
- Fluticasone propionate is a corticosteroid which reduces swelling and irritation in the lungs.

BroPair Spiromax is used to treat asthma in adults and adolescents aged 12 years and older.

BroPair Spiromax helps to prevent breathlessness and wheeziness coming on. You should not use it to relieve an asthma attack. If you have an asthma attack, use a fast-acting reliever (rescue) inhaler, such as salbutamol. You should always have your fast-acting rescue inhaler with you.

# 2. What you need to know before you use BroPair Spiromax

# Do not use BroPair Spiromax

- if you are allergic to salmeterol, fluticasone propionate or any of the other ingredients of this medicine (listed in section 6).

# Warnings and precautions

Talk to your doctor, pharmacist or nurse before using BroPair Spiromax if you have:

- Heart disease, including an irregular or fast heart beat
- Overactive thyroid gland
- High blood pressure
- Diabetes (BroPair Spiromax may increase your blood sugar)
- Low potassium in your blood
- Tuberculosis (TB) now or have had in the past, or have other lung infections

Contact your doctor if you experience blurred vision or other visual disturbances.

#### Children and adolescents

Do not give this medicine to children or adolescents under the age of 12 years because it has not been studied in this age group.

#### Other medicines and BroPair Spiromax

Tell your doctor, nurse or pharmacist if you are taking or, have recently taken or might use any other medicines. BroPair Spiromax may not be suitable for use with some other medicines.

Tell your doctor if you are taking the following medicines, before starting to use BroPair Spiromax.

- Beta blockers (such as atenolol, propranolol and sotalol). Beta blockers are mostly used for high blood pressure or heart conditions such as angina.
- Medicines to treat infections (such as ritonavir, ketoconazole, itraconazole and erythromycin). Some of
  these medicines may increase the amount of salmeterol or fluticasone propionate in your body. This can
  increase side effects with BroPair Spiromax, including irregular heartbeats, or may make side effects
  worse.
- Corticosteroids (by mouth or by injection). Recent use of these medicines might increase the risk of BroPair Spiromax affecting your adrenal glands by reducing the amount of steroid hormones produced by the glands (adrenal suppression).
- Diuretics, medicines that increase urine production and are used to treat high blood pressure.
- Other bronchodilators (such as salbutamol).
- Xanthine medicines such as aminophylline and theophylline. These are often used to treat asthma.

Some medicines may increase the effects of BroPair Spiromax and your doctor may wish to monitor you carefully if you are taking these medicines (including some medicines for HIV: ritonavir, cobicistat).

# Pregnancy and breast-feeding

If you are pregnant, think you may be pregnant or are planning to have a baby, ask your doctor, nurse or pharmacist for advice before taking this medicine.

It is not known if this medicine can pass into breast milk. If you are breast-feeding, check with your doctor, nurse or pharmacist before taking this medicine.

# **Driving and using machines**

BroPair Spiromax is not likely to affect your ability to drive or use machines.

## **BroPair Spiromax contains lactose**

Each dose of this medicine contains approximately 5.4 milligrams of lactose. If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before taking this medicine.

# 3. How to use BroPair Spiromax

Always use this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

The recommended dose is one inhalation twice a day.

- BroPair Spiromax is for long-term regular use. Use it every day to keep your asthma under control. Do not use more than the recommended dose. Check with your doctor, nurse or pharmacist if you are not some.
- Do not stop taking BroPair Spiromax or reduce the dose without talking to your doctor or nurse first.
- BroPair Spiromax should be inhaled through the mouth.

Your doctor or nurse will help you to manage your asthma. The doctor or nurse will change your inhaler medicine if you need a different dose to control your asthma properly. However, do not change the number of inhalations your doctor or nurse has prescribed without talking to your doctor or nurse first.

If your asthma or breathing gets worse tell your doctor straight away. If you feel more wheezy, your chest feels tight more often, or you need to use more of your fast-acting 'reliever' medicine, your asthma may be getting worse and you could become seriously ill. Continue to use BroPair Spiromax but do not increase the number of inhalations you take. See your doctor at once as you may need additional treatment.

#### Instructions for use

## **Training**

Your doctor, nurse, or pharmacist should train you on how to use your inhaler, including how to inhale a dose effectively. This training is important to ensure you receive the dose you require. If you have not received this training please ask your doctor, nurse or pharmacist to show you how to use your inhaler properly before you use it for the first time.

Your doctor, nurse, or pharmacist should also check from time to time that you are using the Spiromax device properly and as prescribed. If you are not using BroPair Spiromax properly or you are not breathing it in **forcefully** enough, you may not be getting enough medicine into your lungs. This means that the medicine will not help your asthma as well as it should.

# Preparing your BroPair Spiromax

Before using your BroPair Spiromax for the first time, you need to prepare it for use as follows:

- Check the dose indicator to see that there are 60 inhalations in the inhaler.
- Write the date you opened the foil pouch on the label on the inhaler.
- You do not need to shake your inhaler before you use it

#### How to take an inhalation

1. Hold your inhaler with the semi-transparent yellow mouthpiece cover at the bottom.

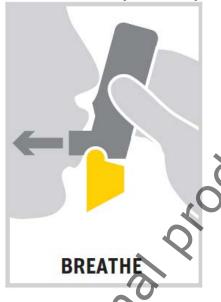


2. Open the mouthpiece cover by folding it down until you hear a loud click. This will measure out one dose of your medicine. Your inhaler is now ready for use.



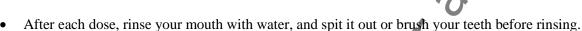
- 3. Breathe out gently (as far as is comfortable). Do not breathe out through your inhaler.
- 4. Put the mouthpiece in your mouth and close your lips tightly around it. Take care not to block the air vents.

Breathe in through your mouth as deeply and as hard as you can. Note that it is important that you breathe in **forcefully**.



- 5. Remove your inhaler from your mouth. You may notice a taste when you take your inhalation.
- 6. Hold your breath for 10 seconds or as long as you comfortably can.
- 7. **Then breathe out gently** (do not breathe out through the inhaler).
- 8. Close the mouthpiece cover.





- Do not try to take your inhaler apart, remove or twist the mouthpiece cover.
  The cover is fixed to your inhaler and must not be taken off.
- Do not use your Spiromax if it has been damaged or if the mouthpiece has come apart from your Spiromax.
- Do not open and close the mouthpiece cover unless you are about to use your inhaler.

# **Cleaning your Spiromax**

Keep your inhaler dry and clean.

If necessary you may wipe the mouthpiece of your inhaler after use with a dry cloth or tissue.

# When to start using a new BroPair Spiromax

• The dose indicator on the rear of the device tells you how many doses (inhalations) are left in your inhaler, starting at 60 when it is full and ending with 0 (zero) when it is empty.



- The dose indicator shows the number of inhalations remaining as even numbers. The spaces between the even numbers represent the odd number of remaining inhalations.
- When 20 or fewer are left, the numbers are shown in red on a white background. When the red numbers appear in the window, you should see your doctor or nurse to get a new inhaler.

# Note:

• The mouthpiece clicks even when your inhaler is empty.

• If you open and close the mouthpiece without taking an inhalation the dose indicator will still register it as a count. This dose will be securely held inside the inhaler for when the next inhalation is due. It is impossible to accidentally take extra medicine or a double dose in 1 inhalation.

# If you use more BroPair Spiromax than you should

It is important that you take the dose that your doctor or nurse has prescribed. You should not exceed the prescribed dose without medical advice. If you accidentally take more doses than recommended, talk to your nurse, doctor or pharmacist. You may notice your heart beating faster than usual and that you feel shaky. You may also have dizziness, a headache, muscle weakness and aching joints.

If you have repeatedly used too many doses of BroPair Spiromax for a long time, you should talk to your doctor or pharmacist for advice. This is because using too much BroPair Spiromax can reduce the amount of steroid hormones produced by your adrenal glands.

# If you forget to use BroPair Spiromax

If you forget to take a dose, take it as soon as you remember. However do **not** take a double dose to make up for a forgotten dose. If it is nearly time for your next dose just take your next dose at the usual time.

# If you stop using BroPair Spiromax

It is very important that you take your BroPair Spiromax every day as advised. **Keep taking it until your doctor tells you to stop. Do not stop or suddenly reduce your dose of BroPair Spiromax**. This could make your breathing worse.

In addition, if you suddenly stop taking BroPair Spiromax or reduce your dose of BroPair Spiromax this may (very rarely) cause problems due to your adrenal glands producing reduced amounts of steroid hormone (adrenal insufficiency) which sometimes causes side effects.

These side effects may include any of the following:

- Stomach pain
- Tiredness and loss of appetite, feeling sick
- Sickness and diarrhoea
- Weight loss
- Headache or drowsiness
- Low levels of sugar in your blood
- Low blood pressure and seizures (fits)

When your body is under stress such as from fever, accident or injury, infection, or surgery, adrenal insufficiency can get worse and you may also have the side effects listed above.

If you get any side effects, talk to your doctor or pharmacist. To prevent these symptoms, your doctor may prescribe extra correcteroids in tablet form (such as prednisolone).

If you have any further questions on the use of this medicine, ask your doctor, pharmacist or nurse.

# 4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them. To reduce the chance of side effects your doctor will prescribe the lowest dose of this combination of drugs to control your asthma

Allergic reactions: you may notice your breathing suddenly gets worse immediately after using BroPair Spiromax. You may be very wheezy and cough or be short of breath. You may also notice itching, a rash (hives) and swelling (usually of the face, lips, tongue or throat), or you may suddenly feel that your heart is beating very fast or you feel faint and light headed (which may lead to collapse or loss of

consciousness). If you get any of these effects or if they happen suddenly after using BroPair Spiromax, stop using BroPair Spiromax and tell your doctor straight away. Allergic reactions to BroPair Spiromax are uncommon (they may affect up to 1 in 100 people).

Other side effects are listed below:

# **Common** (may affect up to 1 in 10 people)

- A fungal infection (thrush) causing sore, creamy-yellow, raised patches in the mouth and throat, as well as a sore tongue, hoarse voice and throat irritation. Rinsing your mouth with water and spitting it out immediately or brushing your teeth after each inhalation may help. Your doctor may prescribe an antifungal medicine to treat the thrush.
- Muscle pain.
- Back pain.
- Flu (influenza).
- Low levels of potassium in your blood (hypokalaemia).
- Inflammation of the nose (rhinitis).
- Inflammation of the sinuses (sinusitis).
- Inflammation of the nose and throat (nasopharyngitis).
- Headache.
- Cough.
- Irritation of the throat.
- Soreness or inflammation of the back of the throat.
- Hoarseness or loss of voice.
- Dizziness.

# **Uncommon** (may affect up to 1 in 100 people)

- Increased sugar (glucose) in your blood (hyperglycaemia). If you have diabetes, more frequent blood sugar monitoring and possibly adjustment of your usual diabetic treatment may be required.
- Cataract (cloudy lens in the eye).
- Very fast heart beat (tachycardia).
- Feeling shaky (tremor) and feeling that your heart is beating fast (palpitations) these are usually harmless and get less as treatment continues.
- Feeling worried or anxious.
- Behavioural changes, such as being unusually active and irritable (although these effects occur mainly in children).
- Disturbed sleep.
- Hay fever.
- Nasal congestion (blocked nose).
- Irregular heartbeat (atrial fibrillations).
- Chest infection.
- Pain in your extremities (arms or legs).
- Stomach pain.
- Indigestion.
- Skin damage and tearing.
- Skin inflammation.
- Inflammation of the throat usually characterised by a sore throat (pharyngitis).

## Rare (may affect up to 1 in 1,000 people)

- Breathing difficulties or wheezing that gets worse straight after taking BroPair Spiromax. If this happens stop using BroPair Spiromax inhaler. Use your fast acting 'reliever' ('rescue') inhaler to help your breathing and tell your doctor straight away.
- BroPair Spiromax may affect the normal production of steroid hormones in the body, particularly if you have taken high doses for long periods of time. The effects include:
  - Slowing of growth in children and adolescents
  - Glaucoma (damage to the nerve in the eye)

- Rounded (moon shaped) face (Cushing's syndrome).

Your doctor will check you regularly for any of these side effects and make sure you are taking the lowest dose of this combination of drugs to control your asthma.

- Uneven or irregular heart beat or an extra heart beat (arrhythmias). Tell your doctor, but do not stop taking BroPair Spiromax unless the doctor tells you to stop.
- A fungal infection in the oesophagus (food canal), which might cause difficulties in swallowing

# Frequency not known, but may also occur:

• Blurred vision.

# Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in <a href="https://example.com/appendix-v">Appendix V</a>. By reporting side effects you can help provide more information on the safety of this medicine.

# 5. How to store BroPair Spiromax

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the carton and the label of your inhaler after EXP. The expiry date refers to the last day of that month.

Do not store above 25 °C. **Keep the mouthpiece cover closed after removing the foil wrapping.** Use within 2 months of removing from the foil wrapping. Use the label on the inhaler to write down the date you open the foil pouch.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

## 6. Contents of the pack and other information

### What BroPair Spiromax contains

- The active substances are salmeterol and fluticasone propionate. Each metered dose contains 14 micrograms of salmeterol (as salmeterol xinafoate) and 113 micrograms of fluticasone propionate. Each delivered dose (the dose that leaves the mouthpiece) contains 12.75 micrograms of salmeterol (as salmeterol xinafoate) and 100 micrograms of fluticasone propionate.
- The other ingredient is lactose monohydrate (see section 2 under 'BroPair Spiromax contains lactose').

# What BroPair Spiromax looks like and contents of the pack

Each BroPair Spiromax inhaler contains inhalation powder for 60 inhalations and has a white body with a semi-transparent yellow mouthpiece cover.

BroPair Spiromax is available in packs containing 1 inhaler and in multipacks containing 3 cartons, each containing 1 inhaler. Not all pack sizes may be marketed in your country.

# **Marketing Authorisation Holder**

Teva B.V. Swensweg 5, 2031 GA Haarlem, The Netherlands

#### Manufacturer

Norton (Waterford) Limited T/A Teva Pharmaceuticals Ireland Unit 14/15, 27/35 & 301, IDA Industrial Park, Cork Road, Waterford, Ireland

Teva Operations Poland Sp. z o.o.

Mogilska 80 Str. 31-546 Kraków, Poland

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

België/Belgique/Belgien

Teva Pharma Belgium N.V./S.A./AG

Tél/Tel: +32 38207373

България

Тева Фарма ЕАД

Тел.: +359 24899585

Česká republika

Teva Pharmaceuticals CR, s.r.o.

Tel: +420 251007111

Danmark

Teva Denmark A/S

Tlf.: +45 44985511

**Deutschland** 

TEVA GmbH

Tel: +49 73140208

**Eesti** 

UAB Teva Baltics Eesti filiaal

Tel: +372 6610801

Ελλάδα

TEVA HELLAS A.E.

Τηλ: +30 2118805000

España

Laboratorios BIAL, S.A.

Tél: +34 915624196

France

Teva Santé

Tél: +33 155917800

Hrvatska

Pliva Hrvatska d.o.o.

Tel: +385 13720000

**Ireland** 

Teva Pharmaceuticals Ireland

Tel: +44 2075407117

Ísland

Lietuva

**UAB Teva Baltics** 

Tel: +370 52660203

Luxembourg/Luxemburg

Teva Pharma Belgium N.V./S.A./AG

Belgique/Belgien

Tél/Tel: +32 38207373

Magyarország

Teva Gyógyszergyár Zrt.

Tel.: +36 12886400

Malta

Teva Pharmaceuticals Ireland

L-Irlanda

Tel: +44 2075407117

Nederland

Teva Nederland B.V.

Tel: +31 8000228400

Norge

Teva Norway AS

Tlf: +47 66775590

Österreich

ratiopharm Arzneimittel Vertriebs-GmbH

Tel: +43 1970070

Polska

Teva Pharmaceuticals Polska Sp. z o.o.

Tel.: +48 223459300

**Portugal** 

Teva Pharma - Produtos Farmacêuticos, Lda.

Tel: +351 214767550

România

Teva Pharmaceuticals S.R.L.

Tel: +40 212306524

Slovenija

Pliva Ljubljana d.o.o.

Tel: +386 15890390

Slovenská republika

Teva Pharma Iceland ehf. Sími: +354 5503300

Italia

Teva Italia S.r.l. Tel: +39 028917981

Κύπρος

TEVA HELLAS A.E. Ελλάδα

Τηλ: +30 2118805000

Latvija

UAB Teva Baltics filiāle Latvijā

Tel: +371 67323666

This leaflet was last revised in.

Other sources of information

ne Europea Anediicina Detailed information on this medicine is available on the European Medicines Agency web site:

TEVA Pharmaceuticals Slovakia s.r.o.

Tel: +421 257267911

Suomi/Finland

Teva Finland Oy

Puh/Tel: +358 201805900

**Sverige** 

Teva Sweden AB Tel: +46 42121100

## Package leaflet: Information for the patient

# BroPair Spiromax 12.75 micrograms/202 micrograms inhalation powder salmeterol/fluticasone propionate

# Read all of this leaflet carefully before you start using this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, pharmacist or nurse.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

#### What is in this leaflet

- 1. What BroPair Spiromax is and what it is used for
- 2. What you need to know before you use BroPair Spiromax
- 3. How to use BroPair Spiromax
- 4. Possible side effects
- 5. How to store BroPair Spiromax
- 6. Contents of the pack and other information

# 1. What BroPair Spiromax is and what it is used for

BroPair Spiromax contains 2 active substances: salmeterol and fluticasone propionate:

- Salmeterol is a long-acting bronchodilator. Bronchodilators help the airways into the lungs to stay open. This makes it easier for air to get in and out. The effects of salmeterol last for at least 12 hours.
- Fluticasone propionate is a corticosteroid which reduces swelling and irritation in the lungs.

BroPair Spiromax is used to treat asthma in adults and adolescents aged 12 years and older.

BroPair Spiromax helps to prevent breathlessness and wheeziness coming on. You should not use it to relieve an asthma attack. If you have an asthma attack, use a fast-acting reliever (rescue) inhaler, such as salbutamol. You should always have your fast-acting rescue inhaler with you.

# 2. What you need to know before you use BroPair Spiromax

# Do not use BroPair Spiromax

if you are allergic to salmeterol, fluticasone propionate or any of the other ingredients of this medicine (listed in section 6).

# Warnings and precautions

Talk to your doctor, pharmacist or nurse before using BroPair Spiromax if you have:

- Heart disease, including an irregular or fast heart beat
- Overactive thyroid gland
- High blood pressure
- Diabetes (BroPair Spiromax may increase your blood sugar)
- Low potassium in your blood
- Tuberculosis (TB) now or have had in the past, or have other lung infections

Contact your doctor if you experience blurred vision or other visual disturbances.

#### Children and adolescents

Do not give BroPair Spiromax to children or adolescents under the age of 12 years because it has not been studied in this age group.

### Other medicines and BroPair Spiromax

Tell your doctor, nurse or pharmacist if you are taking or, have recently taken or might use any other medicines. BroPair Spiromax may not be suitable for use with some other medicines.

Tell your doctor if you are taking the following medicines, before starting to use BroPair Spiromax.

- Beta blockers (such as atenolol, propranolol and sotalol). Beta blockers are mostly used for high blood pressure or heart conditions such as angina.
- Medicines to treat infections (such as ritonavir, ketoconazole, itraconazole and erythromycin). Some of
  these medicines may increase the amount of salmeterol or fluticasone propionate in your body. This can
  increase side effects with BroPair Spiromax, including irregular heartbeats, or may make side effects
  worse.
- Corticosteroids (by mouth or by injection). Recent use of these medicines might increase the risk of BroPair Spiromax affecting your adrenal glands by reducing the amount of steroid hormones produced by the glands (adrenal suppression).
- Diuretics, medicines that increase urine production and are used to treat high blood pressure.
- Other bronchodilators (such as salbutamol).
- Xanthine medicines such as aminophylline and theophylline. These are often used to treat asthma.

Some medicines may increase the effects of BroPair Spiromax and your doctor may wish to monitor you carefully if you are taking these medicines (including some medicines for HIV: ritonavir, cobicistat).

# **Pregnancy and breast-feeding**

If you are pregnant, think you may be pregnant or are planning to have a baby, ask your doctor, nurse or pharmacist for advice before taking this medicine.

It is not known if this medicine can pass into breast milk. If you are breast-feeding, check with your doctor, nurse or pharmacist before taking this medicine.

# **Driving and using machines**

BroPair Spiromax is not likely to affect your ability to drive or use machines.

## **BroPair Spiromax contains lactose**

Each dose of this medicine contains approximately 5.4 milligrams of lactose. If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before taking this medicine.

# 3. How to use BroPair Spiromax

Always use this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

The recommended dose is one inhalation twice a day.

- BroPair Spiromax is for long-term regular use. Use it every day to keep your asthma under control. Do not use more than the recommended dose. Check with your doctor, nurse or pharmacist if you are not some.
- Do not stop taking BroPair Spiromax or reduce the dose without talking to your doctor or nurse first.
- BroPair Spiromax should be inhaled through the mouth.

Your doctor or nurse will help you to manage your asthma. The doctor or nurse will change your inhaler medicine if you need a different dose to control your asthma properly. However, do not change the number of inhalations your doctor or nurse has prescribed without talking to your doctor or nurse first.

If your asthma or breathing gets worse tell your doctor straight away. If you feel more wheezy, your chest feels tight more often, or you need to use more of your fast-acting 'reliever' medicine, your asthma may be getting worse and you could become seriously ill. Continue to use BroPair Spiromax but do not increase the number of inhalations you take. See your doctor at once as you may need additional treatment.

#### Instructions for use

#### **Training**

Your doctor, nurse, or pharmacist should train you on how to use your inhaler, including how to inhale a dose effectively. This training is important to ensure you receive the dose you require. If you have not received this training please ask your doctor, nurse or pharmacist to show you how to use your inhaler properly before you use it for the first time.

Your doctor, nurse, or pharmacist should also check from time to time that you are using the Spiromax device properly and as prescribed. If you are not using BroPair Spiromax properly or you are not breathing it in **forcefully** enough, you may not be getting enough medicine into your lungs. This means that the medicine will not help your asthma as well as it should.

# **Preparing your BroPair Spiromax**

Before using your BroPair Spiromax for the first time, you need to prepare it for use as follows:

- Check the dose indicator to see that there are 60 inhalations in the inhaler.
- Write the date you opened the foil pouch on the label on the inhaler.
- You do not need to shake your inhaler before you use it,

# How to take an inhalation

1. **Hold your inhaler** with the semi-transparent yellow mouthpiece cover at the bottom.



2. **Open** the mouthpiece cover by folding it down until you hear a loud click. This will measure out one dose of your medicine. Your inhaler is now ready for use.



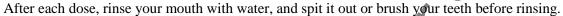
- 3. **Breathe** out gently (as far as is comfortable). Do not breathe out through your inhaler.
- 4. Put the mouthpiece in your mouth and close your lips tightly around it. Take care not to block the air vents.

Breathe in through your mouth as deeply and as hard as you can, Note that it is important that you breathe in **forcefully**.



- 5. Remove your inhaler from your mouth. You may notice a taste when you take your inhalation.
- 6. Hold your breath for 10 seconds or as long as you comfortably can.
- 7. **Then breathe out gently** (do not breathe out through the inhaler).
- 8. Close the mouthpiece cover.





- Do not try to take your inhaler apart, remove or twist the mouthpiece cover.
- The cover is fixed to your inhaler and must not be taken off.
- Do not use your Spiromax if it has been damaged or if the mouthpiece has come apart from your Spiromax.
- Do not open and close the mouthpiece cover unless you are about to use your inhaler.

# **Cleaning your Spiromax**

Keep your inhaler dry and clean.

If necessary you may wipe the mouthpiece of your inhaler after use with a dry cloth or tissue.

# When to start using a new BroPair Spiromax

• The dose indicator on the rear of the device tells you how many doses (inhalations) are left in your inhaler, starting at 60 when it is full and ending with 0 (zero) when it is empty.



- The dose indicator shows the number of inhalations remaining as even numbers. The spaces between the even numbers represent the odd number of remaining inhalations.
- When 20 or fewer are left, the numbers are shown in red on a white background. When the red numbers appear in the window, you should see your doctor or nurse to get a new inhaler.

#### Note:

- The mouthpiece clicks even when your inhaler is empty.
- If you open and close the mouthpiece without taking an inhalation the dose indicator will still register it as a count. This dose will be securely held inside the inhaler for when the next inhalation is due. It is impossible to accidentally take extra medicine or a double dose in 1 inhalation.

# If you use more BroPair Spiromax than you should

It is important that you take the dose that your doctor or nurse has prescribed. You should not exceed the prescribed dose without medical advice. If you accidentally take more doses than recommended, talk to your nurse, doctor or pharmacist. You may notice your heart beating faster than usual and that you feel shaky. You may also have dizziness, a headache, muscle weakness and aching joints.

If you have repeatedly used too many doses of BroPair Spiromax for a long time, you should talk to your doctor or pharmacist for advice. This is because using too much BroPair Spiromax can reduce the amount of steroid hormones produced by your adrenal glands.

# If you forget to use BroPair Spiromax

If you forget to take a dose, take it as soon as you remember. However do **not** take a double dose to make up for a forgotten dose. If it is nearly time for your next dose just take your next dose at the usual time.

# If you stop using BroPair Spiromax

It is very important that you take your BroPair Spiromax every day as advised. **Keep taking it until your doctor tells you to stop. Do not stop or suddenly reduce your dose of BroPair Spiromax**. This could make your breathing worse.

In addition, if you suddenly stop taking BroPair Spiromax or reduce your dose of BroPair Spiromax this may (very rarely) cause problems due to your adrenal glands producing reduced amounts of steroid hormone (adrenal insufficiency) which sometimes causes side effects.

These side effects may include any of the following:

- Stomach pain
- Tiredness and loss of appetite, feeling sick
- Sickness and diarrhoea
- Weight loss
- Headache or drowsiness
- Low levels of sugar in your blood
- Low blood pressure and seizures (fits)

When your body is under stress such as from fever, accident or injury, infection, or surgery, adrenal insufficiency can get worse and you may also have the side effects listed above.

If you get any side effects, talk to your doctor or pharmacist. To prevent these symptoms, your doctor may prescribe extra corticosteroids in tablet form (such as prednisolone).

If you have any further questions on the use of this medicine, ask your doctor, pharmacist or nurse.

# 4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them. To reduce the chance of side effects your doctor will prescribe the lowest dose of this combination of drugs to control your asthma.

Allergic reactions: you may notice your breathing suddenly gets worse immediately after using BroPair Spiromax. You may be very wheezy and cough or be short of breath. You may also notice itching, a rash (hives) and swelling (usually of the face, lips, tongue or throat), or you may suddenly feel that your heart is beating very fast or you feel faint and light headed (which may lead to collapse or loss of consciousness). If you get any of these effects or if they happen suddenly after using BroPair Spiromax, stop using BroPair Spiromax and tell your doctor straight away. Allergic reactions to BroPair Spiromax are uncommon (they may affect up to 1 in 100 people).

Other side effects are listed below:

# **Common** (may affect up to 1 in 10 people)

- A fungal infection (thrush) causing sore, creamy-yellow, raised patches in the mouth and throat, as well as a sore tongue, hoarse voice and throat irritation. Rinsing your mouth with water and spitting it out immediately or brushing your teeth after each inhalation may help. Your doctor may prescribe an antifungal medicine to treat the thrush.
- Muscle pain.
- Back pain.
- Flu (influenza).
- Low levels of potassium in your blood (hypokalaemia).
- Inflammation of the nose (rhinitis).
- Inflammation of the sinuses (sinusitis).
- Inflammation of the nose and throat (nasopharyngitis).
- Headache.
- Cough.
- Irritation of the throat.
- Soreness or inflammation of the back of the throat.
- Hoarseness or loss of voice.
- Dizziness.

# **Uncommon** (may affect up to 1 in 100 people)

- Increased sugar (glucose) in your blood (hyperglycaemia). If you have diabetes, more frequent blood sugar monitoring and possibly adjustment of your usual diabetic treatment may be required.
- Cataract (cloudy lens in the eye).
- Very fast heart beat (tachycardia).
- Feeling shaky (tremor) and feeling that your heart is beating fast (palpitations) these are usually harmless and get less as treatment continues.
- Feeling worried or anxious.
- Behavioural changes, such as being unusually active and irritable (although these effects occur mainly in children).
- Disturbed sleep.
- Hav fever.
- Nasal congestion (blocked nose).
- Irregular heartbeat (atrial fibrillations).
- Chest infection.
- Pain in your extremities (arms or legs).
- Stomach pain.
- Indigestion.
- Skin damage and tearing.
- Skin inflammation.
- Inflammation of the throat usually characterised by a sore throat (pharyngitis).

# **Rare** (may affect up to 1 in 1,000 people)

• Breathing difficulties or wheezing that gets worse straight after taking BroPair Spiromax. If this happens stop using BroPair Spiromax inhaler. Use your fast acting 'reliever' ('rescue') inhaler to help your breathing and tell your doctor straight away.

- BroPair Spiromax may affect the normal production of steroid hormones in the body, particularly if you have taken high doses for long periods of time. The effects include:
  - Slowing of growth in children and adolescents
  - Glaucoma (damage to the nerve in the eye)
  - Rounded (moon shaped) face (Cushing's syndrome).

Your doctor will check you regularly for any of these side effects and make sure you are taking the lowest dose of this combination of drugs to control your asthma.

- Uneven or irregular heart beat or an extra heart beat (arrhythmias). Tell your doctor, but do not stop taking BroPair Spiromax unless the doctor tells you to stop.
- A fungal infection in the oesophagus (food canal), which might cause difficulties in swallowing.

# Frequency not known, but may also occur:

• Blurred vision.

# Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in <a href="Appendix V">Appendix V</a>. By reporting side effects you can help provide more information on the safety of this medicine.

# 5. How to store BroPair Spiromax

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the carton and the label of your inhaler after EXP. The expiry date refers to the last day of that month.

Do not store above 25 °C. **Keep the mouthpiece cover closed after removing the foil wrapping.** Use within 2 months of removing from the foil wrapping. Use the label on the inhaler to write down the date you open the foil pouch.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

# 6. Contents of the pack and other information

# What BroPair Spiromax contains

- The active substances are salmeterol and fluticasone propionate. Each metered dose contains 14 micrograms of salmeterol (as salmeterol xinafoate) and 232 micrograms of fluticasone propionate. Each delivered dose (the dose that leaves the mouthpiece) contains 12.75 micrograms of salmeterol (as salmeterol xinafoate) and 202 micrograms of fluticasone propionate.
- The other ingredient is lactose monohydrate (see section 2 under 'BroPair Spiromax contains lactose').

# What BroPair Spiromax looks like and contents of the pack

Each BroPair Spiromax inhaler contains inhalation powder for 60 inhalations and has a white body with a semi-transparent yellow mouthpiece cover.

BroPair Spiromax is available in packs containing 1 inhaler and in multipacks comprising 3 cartons, each containing 1 inhaler. Not all pack sizes may be marketed in your country.

## **Marketing Authorisation Holder**

Teva B.V. Swensweg 5, 2031 GA Haarlem, The Netherlands

#### Manufacturer

Norton (Waterford) Limited T/A Teva Pharmaceuticals Ireland Unit 14/15, 27/35 & 301, IDA Industrial Park, Cork Road, Waterford, Ireland

Teva Operations Poland Sp. z o.o. Mogilska 80 Str. 31-546 Kraków, Poland

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

België/Belgique/Belgien

Teva Pharma Belgium N.V./S.A./AG

Tél/Tel: +32 38207373

България

Тева Фарма ЕАД Тел.: +359 24899585

Česká republika

Teva Pharmaceuticals CR, s.r.o.

Tel: +420 251007111

Danmark

Teva Denmark A/S Tlf.: +45 44985511

**Deutschland** TEVA GmbH

Tel: +49 73140208

Eesti

UAB Teva Baltics Eesti filiaal

Tel: +372 6610801

Ελλάδα

TEVA HELLAS A.E.

 $T\eta\lambda$ : +30 2118805000

España

Laboratorios BIAL, S.A.

Tél: +34 915624196

France

Teva Santé

Tél: +33 155917800

Hrvatska

Pliva Hrvatska d.o.o.

Tel: +385 13720000

**Ireland** 

Teva Pharmaceuticals Ireland

Lietuva

UAB Teva Baltics

Tel: +370 52660203

Luxembourg/Luxemburg

Teva Pharma Belgium N.V./S.A./AG

Belgique/Belgien

Tél/Tel: +32 38207373

Magyarország

Teva Gyógyszergyár Zrt.

Tel.: +36 12886400

Malta

Teva Pharmaceuticals Ireland

L Irlanda

Tel: +44 2075407117

Nederland

Teva Nederland B.V.

Tel: +31 8000228400

Norge

Teva Norway AS

Tlf: +47 66775590

Österreich

ratiopharm Arzneimittel Vertriebs-GmbH

Tel: +43 1970070

Polska

Teva Pharmaceuticals Polska Sp. z o.o.

Tel.: +48 223459300

**Portugal** 

Teva Pharma - Produtos Farmacêuticos, Lda.

Tel: +351 214767550

România

Teva Pharmaceuticals S.R.L.

Tel: +40 212306524

Slovenija

Pliva Ljubljana d.o.o.

Tel: +44 2075407117

Ísland

Teva Pharma Iceland ehf. Sími: +354 5503300

Italia

Teva Italia S.r.l. Tel: +39 028917981

Κύπρος

TEVA HELLAS A.E. Ελλάδα Τηλ: +30 2118805000

Latvija

UAB Teva Baltics filiāle Latvijā

Tel: +371 67323666

This leaflet was last revised in.

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site: http://www.ema.europa.eu

Tel: +386 15890390

Slovenská republika

TEVA Pharmaceuticals Slovakia s.r.o.

Tel: +421 257267911

Suomi/Finland

Teva Finland Oy

Puh/Tel: +358 201805900

Sverige

Teva Sweden AB

Tel: +46 42121100