# **Summary of Product Characteristics**

### 1. NAME OF THE MEDICINAL PRODUCT (FPP)

Amlovie 5

**Amlodipine** 

### 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each tablet contains 5 mg amlodipine (as amlodipine besilate).

For the full list of excipients, see section 6.1.

#### 3. PHARMACEUTICAL FORM

**Tablet** 

White to almost white, oblong tablet, scored on one side.

### 4. CLINICAL PARTICULARS

### 4.1. Therapeutic indications

- Hypertension
- Chronic stable angina pectoris.
- Vasospastic (Prinzmetal's) angina pectoris.

# 4.2. Posology and mode of administration

# 4.2.1. Posology

**Adults** 

For treatment of both hypertension and angina pectoris the usual initial dose is 5 mg once daily. If the desired therapeutic effect cannot be achieved within 2-4 weeks this dose may be increased to a maximum dose of 10 mg daily (as single dose) depending on the individual patient's response.

In hypertensive patients, amlodipine has been used in combination with a thiazide diuretic, alpha-blocker, beta-blocker, or an angiotensin converting enzyme inhibitor.

For angina, amlodipine may be used as monotherapy or in combination with other antianginal medicinal products in patients with angina that is refractory to nitrates and/or to adequate doses of beta blockers.

EP January 2019 Page **1** of **15** 

No dose adjustment of amlodipine is required upon concomitant administration of thiazide diuretics, beta-blockers, and angiotensin-converting enzyme inhibitors.

### 4.2.2. Special populations

- Amlodipine used at similar doses in elderly or younger patients is equally well tolerated. Normal dosage regimens are recommended in the elderly, but increase of the dosage should take place with care.
- Hepatic impairment
   Dosage recommendations have not been established in patients with mild
   to moderate hepatic impairment; therefore dose selection should be
   cautious and should start at the lower end of the dosing range. The
   pharmacokinetics of amlodipine have not been studied in severe hepatic
   impairment. Amlodipine should be initiated at the lowest dose and
   titrated slowly in patients with severe hepatic impairment.
- Renal impairment
   Changes in amlodipine plasma concentrations are not correlated with degree of renal impairment, therefore the normal dosage is recommended.

   Amlodipine is not dialysable.

# 4.2.3. Pediatric population

- Children with hypertension from 6 years to 17 years of age: the
  recommended antihypertensive oral dose in paediatric patient's ages 6-17
  years is 2.5 mg once daily as a starting dose, up-titrated to 5 mg once daily
  if blood pressure goal is not achieved after 4 weeks. Doses in excess of 5
  mg daily have not been studied in paediatric patients.
- Children under 6 years old: the effect of amlodipine on blood pressure in patients less than 6 years of age is not known.

#### 4.2.4. Method of administration

Tablet for oral administration.

#### 4.3. Contraindications

Amlodipine is contra-indicated in patients with:

 hypersensitivity to amlodipine, dihydropyridine derivatives or any of the excipients listed in section 6.1,

EP January 2019 Page **2** of **15** 

- severe hypotension,
- shock, including cardiogenic shock,
- obstruction of the outflow-tract of the left ventricle (e.g. high grade aortic stenosis),
- haemodynamically unstable heart failure after acute myocardial infarction.

### 4.4. Special warning and precautions for use

The safety and efficacy of amlodipine in hypertensive crisis has not been established.

- Cardiac failure
  - Patients with heart failure should be treated with caution. In a long-term, placebo controlled study in patients with severe heart failure (NYHA class III and IV) the reported incidence of pulmonary oedema was higher in the amlodipine treated group than in the placebo group, but this was not indicating an aggravation of the heart failure. Calcium channel blockers, including Amlodipine, should be used with caution in patients with congestive heart failure, as they may increase the risk of future cardiovascular events and mortality.
- Myocardial infarction.
   There are no data to support the use of amlodipine alone, during or within one month of a myocardial infarction.
- Impaired hepatic function
   The half-life of amlodipine is prolonged and AUC values are higher in patients with impaired liver function; dosage recommendations have not been established. Amlodipine should therefore be initiated at the lower end of the dosing range and caution should be used, both on initial treatment and when increasing the dose. Slow dose titration and careful monitoring may be required in patients with severe hepatic impairment.
- Elderly patients
   In the elderly, increase of the dosage should take place with care.
- Renal failure
   Amlodipine may be used in such patients at normal doses. Change in Amlodipine plasma concentrations are not correlated with degree of renal impairment.

   Amlodipine is not dialyzable.

# **4.5.** Interactions with other medicinal products and other forms of interactions <u>Effects of other medicinal products on amlodipine</u>

CYP3A4 inhibitors

EP January 2019 Page **3** of **15** 

Concomitant use of amlodipine with strong or moderate CYP3A4 inhibitors (protease inhibitors, azole antifungals, macrolides like erythromycin or clarithromycin, verapamil or diltiazem) may give rise to significant increase in amlodipine exposure.

The clinical translation of these PK variations may be more pronounced in the elderly. Clinical monitoring and dose adjustment may thus be required.

#### - CYP3A4 inducers

Upon co-administration of known inducers of the CYP3A4, the plasma concentration of amlodipine may vary. Therefore, blood pressure should be monitored and dose regulation considered both during and after concomitant medication particularly with strong CYP3A4 inducers (e.g. rifampicin, hypericum perforatum).

- Dantrolene (infusion): In animals, lethal ventricular fibrillation and cardiovascular collapse are observed in association with hyperkalaemia after administration of verapamil and intravenous dantrolene. Due to risk of hyperkalaemia, it is recommended that the coadministration of calcium channel blockers such as amlodipine be avoided in patients susceptible to malignant hyperthermia and in the management of malignant hyperthermia.
- Consumption of grapefruit/grapefruit juice should be avoided while taking amlodipine. The intake of grapefruit juice may result in increased plasma amlodipine concentrations, which may enhance the blood pressure lowering effects of amlodipine. This interaction has been observed with other dihydropyridine calcium antagonists and represents a class effect.

### Effects of amlodipine on other medicinal products

- In clinical interaction studies, amlodipine did not affect the pharmacokinetics of atorvastatin, digoxin, warfarin or cyclosporine.
- Data from in vitro human plasma studies indicate that amlodipine has no effect on protein binding of digoxin, phenytoin, warfarin or indomethacin.
- The blood pressure lowering effects of amlodipine adds to the blood pressure-lowering effects of other antihypertensive agents.
- Simvastatin: co-administration of multiple doses of 10 mg of amlodipine with 80 mg simvastatin resulted in a 77% increase in exposure to simvastatin compared to simvastatin alone. Limit the dose of simvastatin in patients on amlodipine to 20 mg daily.
- Trimethoprim and in fixed dose combination with sulfamethoxazole (Cotrimoxazole): an increased incidence of hyperkalaemia was observed in patients

EP January 2019 Page **4** of **15** 

- taking ACE Inhibitors and trimethoprim and in fixed dose combination with sulfamethoxazole (Co-trimoxazole).
- Tacrolimus: there is a risk of increased tacrolimus blood levels when coadministered with amlodipine but the pharmacokinetic mechanism of this interaction is not fully understood. In order to avoid toxicity of tacrolimus, administration of amlodipine in a patient treated with tacrolimus requires monitoring of tacrolimus blood levels and dose adjustment of tacrolimus when appropriate.
- Cyclosporine: no drug interaction studies have been conducted with cyclosporine and amlodipine in healthy volunteers or other populations with the exception of renal transplant patients, where variable trough concentration increases (average 0% 40%) of cyclosporine were observed. Consideration should be given for monitoring cyclosporine levels in renal transplant patients on amlodipine, and cyclosporine dose reductions should be made as necessary.

# 4.6. Fertility, pregnancy and lactation

### 4.6.1. Pregnancy

Reversible biochemical changes in the head of spermatozoa have been reported in some patients treated by calcium channel blockers. Clinical data are insufficient regarding the potential effect of amlodipine on fertility. In one rat study, adverse effects were found on male fertility.

#### 4.6.2. Lactation

Amlodipine is excreted in human milk. The proportion of the maternal dose received by the infant has been estimated with an interquartile range of 3-7%, with a maximum of 15%. The effect of amlodipine on infants is unknown. A decision on whether to continue/discontinue breast-feeding or to continue/discontinue therapy with amlodipine should be made taking into account the benefit of breast-feeding to the child and the benefit of amlodipine therapy to the mother.

#### 4.6.3. Fertility

The safety of amlodipine in human pregnancy has not been established. In animal studies, reproductive toxicity was observed at high doses.

Use in pregnancy is only recommended when there is no safer alternative and when the disease itself carries greater risk for the mother and foetus.

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

EP January 2019 Page **5** of **15** 

Amlodipine can have minor or moderate influence on the ability to drive and use machines. If patients taking amlodipine suffer from dizziness, headache, fatigue or nausea the ability to react may be impaired. Caution is recommended especially at the start of treatment.

#### 4.8. Undesirable effects

### Summary of safety profile

The most commonly reported adverse reactions during treatment are somnolence, dizziness, headache, palpitations, flushing, abdominal pain, nausea, ankle swelling, oedema and fatigue.

The following undesirable effects have been observed and reported during treatment with amlodipine with the following frequencies: Very common ( $\geq 1/10$ ), Common ( $\geq 1/100$  to < 1/10), Uncommon ( $\geq 1/1000$  to  $\leq 1/100$ ), Rare ( $\leq 1/1000$ ), Very rare ( $\leq 1/1000$ ), Not known (Frequency cannot be estimated from the available data).

Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Undesirable effects: Event and frequency per system organ class					
Blood and lymphatic system disorders					
Leukocytopenia, thrombocytopenia	Very rare				
Immune system disorders					
Allergic reactions	Very rare				
Endocrine disorders					
Syndrome of inappropriate antidiuretic	Not known				
hormone secretion (SIADH)					
Metabolism and nutrition disorders					
Hyperglycaemia	Very rare				
Psychiatric disorders					
Insomnia, mood changes (including anxiety),	Uncommon				
depression					
Confusion	Rare				
Nervous system disorders					
Somnolence, dizziness, headache (especially at	Common				
the beginning of the treatment)					

EP January 2019 Page **6** of **15** 

Tremor, dysgeusia, syncope, hypoesthesia, Uncommon						
paresthesis						
Hypertonia, peripheral neuropathy	Very rare					
Extrapyramidal disorder	Not known					
Eye disorders						
Visual disturbance (including diplopia)	Common					
Ear and labyrinth disorders						
Tinnitus	Uncommon					
Cardiac disorders						
Palpitations	Common					
Arrhythmia (including bradycardia and atrial fibrillation)	Uncommon					
Myocardial infarction	Very rare					
Vascular disorders	,					
Flushing	Common					
Hypotension	Uncommon					
Vasculitis	Very rare					
Respiratory, thoracic and mediastinal disorders						
Dyspnoea	Common					
Rhinitis, cough	Uncommon					
Gastrointestinal disorders						
Abdominal pain, nausea, dyspepsia, altered	Common					
bowel habits (including diarrhoea and						
constipation)						
Vomiting, dry mouth	Uncommon					
Pancreatitis, gastritis, gingival hyperplasia	Very rare					
Hepatobiliary disorders						
Hepatitis, jaundice, hepatic enzymes	Very rare					
increased*						
Skin and subcutaneous tissue disorders						
Alopecia, purpura, skin discolouration,	Uncommon					
hyperhidrosis, pruritus, rash, exanthema,						
urticaria						
Angioedema, erythema multiforme, exfoliative	Very rare					
dermatitis, Stevens-Johnson syndrome,						
Quincke oedema, photosensitivity						

EP January 2019 Page **7** of **15** 

Undesirable effects: Event and frequency per system organ class					
Toxic Epidermal Necrolysis	Not known				
Musculoskeletal and connective tissue disorders					
Ankle swelling, muscle cramps	Common				
Arthralgia, myalgia, back pain	Uncommon				
Renal and urinary disorders					
Micturition disorder, nocturia, increased	Uncommon				
urinary frequency					
Reproductive system and breast disorders					
Impotence, gynecomastia	Uncommon				
General disorders and administration site conditions					
Oedema	Very common				
Fatigue, asthenia	Common				
Chest pain, malaise	Uncommon				
Investigations					
Weight increase, weight decrease	Uncommon				

<sup>\*</sup>mostly consistent with cholestasis

Exceptional cases of extrapyramidal syndrome have been reported.

# 4.9. Overdose

In humans, experience with intentional overdose is limited.

# Symptoms

Available data suggest that large overdosage could result in excessive peripheral vasodilatation and possibly reflex tachycardia. Marked and probably prolonged systemic hypotension up to and including shock with fatal outcome have been reported.

#### Management

Clinically significant hypotension due to amlodipine overdosage calls for active cardiovascular support including frequent monitoring of cardiac and respiratory function, elevation of extremities, and attention to circulating fluid volume and urine output.

A vasoconstrictor may be helpful in restoring vascular tone and blood pressure, provided that there is no contraindication to its use.

EP January 2019 Page **8** of **15** 

Intravenous calcium gluconate may be beneficial in reversing the effects of calcium channel blockade.

Gastric lavage may be worthwhile in some cases. In healthy volunteers the use of charcoal up to 2 hours after administration of amlodipine 10mg has been shown to reduce the absorption rate of amlodipine.

Since amlodipine is highly protein-bound, dialysis is not likely to be of benefit.

#### 5. PHARMACOLOGICAL PROPERTIES

### 5.1. Pharmacodynamic properties

**Pharmacotherapeutic group:** Calcium channel blockers, selective calcium channel blockers with mainly vascular effects.

ATC code: C08CA01.

Amlodipine is a calcium ion influx inhibitor of the dihydropyridine group (slow channel blocker or calcium ion antagonist) and inhibits the transmembrane influx of calcium ions into cardiac and vascular smooth muscle.

The mechanism of the antihypertensive action is due to a direct relaxant effect on vascular smooth muscle. The precise mechanism by which amlodipine relieves angina has not been fully determined but Amlodipine reduces total ischaemic burden by the following two actions:

- Amlodipine dilates peripheral arterioles and thus, reduces the total peripheral resistance (afterload) against which the heart works. Since the heart rate remains stable, this unloading of the heart reduces myocardial energy consumption and oxygen requirements.
- The mechanism of action of amlodipine also probably involves dilatation of the main coronary arteries and coronary arterioles, both in normal and ischaemic regions. This dilation increases myocardial oxygen delivery in patients with coronary artery spasm (Prinzmetal's or variant angina).

#### Clinical efficacy and safety

Amlodipine has not been associated with any adverse metabolic effects or changes in plasma lipids and is suitable for use in patients with asthma, diabetes, and gout.

 In patients with hypertension, once daily dosing provides clinically significant reductions of blood pressure in both supine and standing positions throughout

EP January 2019 Page **9** of **15** 

the 24 hour interval. Due to slow onset of action, acute hypotension is not a feature of Amlodipine administration.

 In patients with angina, once daily administration of amlodipine increases total exercise time, the delay of occurrence of anginal attack and the delay of the occurrence of a 1-mm ST interval. Amlodipine decreases both angina attack frequency and glyceryl trinitrate tablet consumption.

# Coronary artery disease (CAD)

The effectiveness of amlodipine in preventing clinical events in patients with coronary artery disease (CAD) has been evaluated in an independent, multicentre, randomized, double- blind, placebo-controlled study of 1997 patients; Comparison of Amlodipine vs. Enalapril to Limit Occurrences of Thrombosis (CAMELOT). Of these patients, 663 were treated with amlodipine 5-10 mg, 673 patients were treated with enalapril 10-20 mg, and 655 patients were treated with placebo, in addition to standard care of statins, beta-blockers, diuretics and aspirin, for 2 years. The key efficacy results are presented in the following table. The results indicate that amlodipine treatment was associated with fewer hospitalizations for angina and revascularization procedures in patients with CAD.

Incidence of significant clinical outcomes for CAMELOT							
	cardiovascular event rates, Number. (%)			amlodipine versus placebo			
				hazard ratio			
Evaluation criteria	amlodipine	placebo	enalapril	(95% CI)	p value		
Primary endpoint							
Adverse cardiovascular	110 (16,6)	151 (23,1)	136 (20,2)	0,69	0,003		
events				(0,54-0,88)			
Individual components							
Coronary	78 (11,8)	103 (15,7)	95 (14,1)	0,73	0,03		
revascularization				(0,54-0,98)			
Hospitalization for	51 (7,7)	84 (12,8)	86 (12,8)	0,58	0,002		
angina				(0,41-0,82)			
Nonfatal MI	14 (2,1)	19 (2,9)	11 (1,6)	0,73	0,37		
				(0,37-1,46)			
Stroke or TIA	6 (0,9)	12 (1,8)	8 (1,2)	0,50	0,15		
				(0,19-1,32)			
Cardiovascular death	5 (0,8)	2 (0,3)	5 (0,7)	2,46	0,27		
				(0,48-12,7)			
Hospitalization for CHF	3 (0,5)	5 (0,8)	4 (0,6)	0,59	0,46		
				(0,14-2,47)			
Resuscitated cardiac	0	4 (0,6)	1 (0,1)	NA	0,04		
arrest							
New-onset peripheral	5 (0,8)	2 (0,3)	8 (1,2)	2,6	0,24		
vascular disease				(0,50-13,4)			

EP January 2019 Page **10** of **15** 

Abbreviations: CHF, congestive heart failure; CI, confidence interval; MI, myocardial infarction; TIA, transient ischemic attack

# Use in patients with heart failure

Haemodynamic studies and exercise based controlled clinical trials in NYHA Class II-IV heart failure patients have shown that amlodipine did not lead to clinical deterioration as measured by exercise tolerance, left ventricular ejection fraction and clinical symptomatology.

A placebo-controlled study (PRAISE) designed to evaluate patients in NYHA Class III-IV heart failure receiving digoxin, diuretics and ACE inhibitors has shown that amlodipine did not lead to an increase in risk of mortality or combined mortality and morbidity with heart failure.

In a follow-up, long term, placebo-controlled study (PRAISE-2) of Amlodipine in patients with NYHA III and IV heart failure without clinical symptoms or objective findings suggestive of underlying ischaemic disease, on stable doses of ACE inhibitors, digitalis, and diuretics, amlodipine had no effect on total cardiovascular mortality. In this same population amlodipine was associated with increased reports of pulmonary oedema despite no significant difference in the incidence of worsening heart failure as compared to placebo.

# Treatment to prevent heart attack trial (ALLHAT):

A randomized double-blind morbidity-mortality study called the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT) was performed to compare newer drug therapies: amlodipine 2.5-10 mg/d (calcium channel blocker) or lisinopril 10-40 mg/d (ACE-inhibitor) as first-line therapies to that of the thiazide-diuretic, chlorthalidone 12.5-25 mg/d in mild to moderate hypertension.

A total of 33,357 hypertensive patients aged 55 or older were randomized and followed for a mean of 4.9 years. The patients had at least one additional CHD risk factor, including: previous myocardial infarction or stroke (> 6 months prior to enrolment) or documentation of other atherosclerotic CVD (overall 51.5%), type 2 diabetes (36.1%), HDL-C < 35 mg/dL (11.6%), left ventricular hypertrophy diagnosed by electrocardiogram or echocardiography (20.9%), current cigarette smoking (21.9%).

The primary endpoint was a composite of fatal CHD or non-fatal myocardial infarction. There was no significant difference in the primary endpoint between amlodipine-based therapy and chlorthalidone-based therapy: RR 0.98 95% CI (0.90-1.07) p=0.65. Among secondary endpoints, the incidence of heart failure

EP January 2019 Page **11** of **15** 

(component of a composite combined cardiovascular endpoint) was significantly higher in the amlodipine group as compared to the chlorthalidone group (10.2% % vs 7.7%, RR 1.38, 95% CI [1.25-1.52] p<0.001). However, there was no significant difference in all-cause mortality between amlodipine-based therapy and chlorthalidone-based therapy. RR 0.96 95% CI [0.89-1.02] p=0.20.

Use in children (aged 6 years and older):

In a study involving 268 children aged 6-17 years with predominantly secondary hypertension, comparison of a 2.5mg dose, and 5.0mg dose of amlodipine with placebo, showed that both doses reduced Systolic Blood Pressure significantly more than placebo. The difference between the two doses was not statistically significant.

The long-term effects of amlodipine on growth, puberty and general development have not been studied. The long-term efficacy of amlodipine on therapy in childhood to reduce cardiovascular morbidity and mortality in adulthood have also not been established.

# 5.2. Pharmacokinetic properties

Absorption, distribution, binding to plasmatic proteins
 After oral administration of therapeutic doses, amlodipine is well absorbed with

peak blood levels between 6-12 hours post dose.

Absolute bioavailability of the unchanged active substance is estimated to be 64-80%. Peak plasma levels are reached 6-12 hours after administration.

The volume of distribution is approximately 21 l/kg. The pKa of amlodipine is 8.6. In vitro studies have shown that amlodipine is bound to plasmatic proteins up to 97.5%.

Absorption of amlodipine is not influenced by concomitant food intake.

Biotransformation and elimination

Amlodipine is extensively metabolized by the liver to inactive metabolites with 10% of the parent compound.

The plasma elimination half-life is about 35-50 hours and is consistent with once daily dosing. 60% of metabolites are excreted in the urine.

Hepatic impairment

Very limited clinical data are available regarding amlodipine administration in patients with hepatic impairment. Patients with hepatic insufficiency have

EP January 2019 Page **12** of **15** 

decreased clearance of amlodipine resulting in a longer half-life and an increase in AUC of approximately 40-60%.

# Elderly patients

The time to reach peak plasma concentrations is similar in elderly and younger patients. The clearance tends to be decreased with resulting increases in AUC and terminal elimination half-life in elderly patients. Increase in AUC and elimination half-life in patients with congestive heart failure were as expected for the patient age group studied.

### Paediatric population

A population PK study has been conducted in 74 hypertensive children aged from 1 to 17 years (with 34 patients aged 6 to 12 years and 28 patients aged 13 to 17 years) receiving amlodipine between 1.25 and 20 mg given either once or twice daily. In children 6 to 12 years and in adolescents 13-17 years of age the typical oral clearance (CL/F) was 22.5 and 27.4 L/hr respectively in males and 16.4 and 21.3L/hr respectively in females. Large variability in exposure between individuals was observed. **Data reported in children below 6 years is limited.** 

# 5.3. Preclinical safety data

Reproductive toxicology
 Reproductive studies in rats and mice have shown delayed date of delivery,
 prolonged duration of labour and decreased pup survival at dosages
 approximately 50 times greater than the maximum recommended dosage for humans based on mg/kg.

# - Impairment of fertility

There was no effect on the fertility of rats treated with amlodipine (males for 64 days and females 14 days prior to mating) at doses up to 10 mg/kg/day, this is 8 times (based on patient weight of 50kg) the maximum recommended human dose of 10 mg on a mg/m2 basis. In another rat study in which male rats were treated with amlodipine besilate for 30 days at a dose comparable with the human dose based on mg/kg, decreased plasma follicle-stimulating hormone and testosterone were found as well as decreases in sperm density and in the number of mature spermatids and Sertoli cells.

Carcinogenesis and mutagenesis
 Rats and mice treated with amlodipine in the diet for two years, at concentrations
 calculated to provide daily dosage levels of 0.5, 1.25, and 2.5 mg/kg/day showed

EP January 2019 Page **13** of **15** 

no evidence of carcinogenicity. The highest dose (for mice, similar to, and for rats twice (based on patient weight of 50kg) the maximum recommended clinical dose of 10 mg on a mg/m2 basis) was close to the maximum tolerated dose for mice but not for rats. Mutagenicity studies revealed no drug related effects at either the gene or chromosome levels.

#### 6. PHARMACEUTICAL PARTICULARS

# 6.1. List of excipients

- Microcrystalline cellulose
- Calcium hydrogen phosphate dihydrate
- Sodium starch glycolate (Type A)
- Magnesium stearate

# 6.2. Incompatibilities

None stated.

#### 6.3. Shelf life

36 months.

### 6.4. Special precautions for storage

Store below 30° C.

### 6.5. Nature and contents of container

Opaque PVC-PVDC/Aluminium blister Box containing 30 tablets (3 blisters of 10 tablets).

#### 6.6. Special precautions for disposal and other handlings

No special requirements for disposal.

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

### 7. MARKETING AUTHORISATION HOLDER AND MANUFACURING SITE ADDRESS

#### 7.1. Marketing Authorisation Holder

Dafra Pharma GmbH, Mühlenberg 7, 4052 Basel, Switzerland.

#### 7.2. Manufacturer

Bluepharma Indústria Farmacêutica S.A., S. Martinho do Bispo,3045-016 Coimbra, Portugal.

EP January 2019 Page **14** of **15** 

# 8. MARKETING AUHORISATION NUMBER

See list of MAs per country

# 9. DATE OF FIRST REGISTRATION

See list of MAs per country

# **10. DATE OF REVISION OF TEXT**

January 2019.

EP January 2019 Page **15** of **15**