## SCHEDULING STATUS

#### **1. NAME OF THE MEDICINE**

TRIPLOCO, 600 mg/200 mg/300 mg, film-coated tablets

#### 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each film-coated tablet of **TRIPLOCO** contains: Efavirenz 600 mg Emtricitabine 200 mg Tenofovir disoproxil fumarate 300 mg

Sugar free.

For the full list of excipients, see section 6.1.

#### 3. PHARMACEUTICAL FORM

Film-coated tablets

**TRIPLOCO** is a pink coloured, capsule shaped, film-coated tablet debossed with "H" on one side and "128" on the other side.

#### 4. CLINICAL PARTICULARS

#### 4.1 Therapeutic indications

**TRIPLOCO** is indicated for use alone as a complete regimen or in combination with other antiretroviral agents for the treatment of HIV-1 infection in adults.

#### 4.2 Posology and method of administration

#### Adults

Take one **TRIPLOCO** film-coated tablet daily on an empty stomach. Dosing at bedtime may improve the tolerability of nervous system symptoms.

#### Paediatrics

TRIPLOCO is not recommended for use by patients under the age of 18 years.

#### **Renal impairment**

**TRIPLOCO** is a fixed dose combination and should not be used by patients that require dose adjustment, such as those with moderate or severe renal impairment resulting in a creatinine clearance of less than 50 ml/min.

#### Method of administration

For oral use.

#### 4.3 Contraindications

- Hypersensitivity to efavirenz, emtricitabine, tenofovir disoproxil fumarate or to any of the components listed in section 6.1.
- A history of previous liver injury/failure with efavirenz containing antiretroviral treatment (ART).
- Pregnancy and lactation (see section 4.6).
- Patients with moderate to severe renal impairment i.e. creatinine clearance of less than 50 ml/min (see section 4.4 and 5.2).
- TRIPLOCO should not be used concurrently with the following medicinal products due to CYP3A4 competition: terfenadine, astemizole, bepridil, cisapride, ergot derivatives, midazolam, pimozide or triazolam. Failure to observe this contraindication can result in reduced metabolism of these medicines and may result in serious and/or life-threatening side effects such as cardiac dysrhythmias, prolonged sedation and/or respiratory depression (see section 4.5).
- **TRIPLOCO** and voriconazole should not be administered concurrently because voriconazole plasma concentrations are reduced significantly by efavirenz (see section 4.5).
- **TRIPLOCO** should not be co-administered with herbal preparations containing St. John's wort (*Hypericum perforatum*) due to the risk of decreased plasma concentrations and reduced clinical effects of efavirenz (see sections 4.4 and 4.5).
- · Administration to patients with:
  - a family history of sudden death or of congenital prolongation of the QTc interval on electrocardiograms, or with any other clinical condition known to prolong the QTc interval.
  - a history of symptomatic cardiac dysrhythmia or with clinically relevant bradycardia or with congestive cardiac failure accompanied by reduced left ventricle ejection fraction.
  - severe disturbances of electrolyte balance e.g. hypokalemia or hypomagnesemia.
- Co-administration with medicinal products that are known to prolong the QTc interval (proarrhythmic). These medicinal products include: antiarrhythmics of classes IA and III, neuroleptics, antidepressants, certain antibiotics including some from the following classes: macrolides, fluoroquinolones, imidazole and triazole antifungals, certain non-sedating antihistamines (terfenadine, astemizole), cisapride, flecainide, certain antimalarials and methadone (see sections 4.4 and 4.5).

#### 4.4 Special warnings and precautions for use

LACTIC ACIDOSIS AND SEVERE HEPATOMEGALY WITH STEATOSIS INCLUDING FATAL CASES HAVE BEEN REPORTED WITH THE USE OF NUCLEOSIDE ANALOGUES ALONE OR IN COMBINATION WITH OTHER ANTI-RETROVIRALS (SEE SECTION 4.4).

**TRIPLOCO** IS NOT INDICATED FOR THE TREATMENT OF CHRONIC INFECTION WITH HEPATITIS B VIRUS (HBV). THE SAFETY AND EFFICACY OF **TRIPLOCO** IN PATIENTS CO-INFECTED WITH HBV AND HIV HAS NOT BEEN ESTABLISHED. PATIENTS ON TENOFOVIR AND EMTRICITABINE HAVE DISPLAYED SEVERE EXACERBATIONS OF HEPATITIS B UPON DISCONTINUATION OF TREATMENT. LIVER FUNCTION SHOULD BE MONITORED CLOSELY FOR SEVERAL MONTHS AFTER DISCONTINUATION OF **TRIPLOCO** IN PATIENTS WITH HIV AND HBV CO-INFECTION. CLINICAL AND LABORATORY FOLLOW-UP IS NECESSARY AND IF APPROPRIATE ANTI-HEPATITIS B THERAPY MAY BE WARRANTED (SEE SECTION 4.4).

#### Lactic acidosis/severe hepatomegaly with steatosis

Lactic acidosis and severe hepatomegaly with steatosis have been reported, including fatal cases, with the use of nucleoside analogues alone or in combination with other anti-retrovirals, with the majority being in women. Obesity and prolonged nucleoside exposure are potential risk factors. Patients with known risk factors for liver disease should only be given nucleoside analogues under cautious observation.

Clinical features are non-specific, and include nausea, vomiting, abdominal pain, dyspnoea, fatigue and weight loss.

In patients with suspicious symptoms or biochemistry, measure the venous lactate level (normal < 2 mmol/L) and the serum bicarbonate and respond as follows:

- Lactate 2 5 mmol/L with minimum symptoms: switch to agents that are less likely to cause lactic acidosis.
- Lactate 5 10 mmol/L with symptoms and/or with reduced standard bicarbonate: Stop nucleoside/nucleotide reverse transcriptase inhibitors (NRTIs) and change treatment option. Once lactate has settled, use medicines that are less likely to cause lactic acidosis. Exclude other causes, e.g. sepsis, uraemia, diabetic ketoacidosis, thyrotoxicosis and hyperthyroidism.
- Lactate > 10 mmol/L: STOP all therapy (80 % mortality).

The above lactate values may not be applicable to paediatric patients.

Any patient that develops clinical or laboratory findings suggestive of lactic acidosis or pronounced hepatotoxicity (which may include hepatomegaly and steatosis even in the absence of marked transaminase elevations) should immediately cease **TRIPLOCO** treatment.

#### Liver disease

Use of **TRIPLOCO** can result in hepatomegaly due to non-alcoholic fatty liver disease (hepatic steatosis). The safety and efficacy of **TRIPLOCO** has not been established in patients with significant underlying liver disorders/diseases. In case of concomitant antiviral therapy for hepatitis B or C, please also consult the relevant professional information for these medicines. Patients with pre-existing liver dysfunction including chronic active hepatitis have an increased frequency of liver function abnormalities during combination antiretroviral therapy and should be monitored. If there is evidence of worsening liver disease in such patients, temporary or permanent discontinuation of treatment must be considered.

**TRIPLOCO** is not recommended in patients with moderate to severe hepatic impairment because there are insufficient data to determine whether dose adjustments are required.

#### Liver failure

There is some evidence that efavirenz is associated with three clinical pathological patterns of drug induced liver failure in HIV positive patients of which the sub massive necrosis histological pattern seems to be associated with high morbidity/mortality risk and may present many months after therapy has been initiated or even stopped. Risk factors include younger age, CD4+ counts ≥350 cell/µl and female gender.

Early detection and treatment of the liver failure and the immediate discontinuation of **TRIPLOCO** or efavirenz containing medicines should be stressed. Patients who discontinued treatment with **TRIPLOCO** should be followed up for symptoms/signs of liver failure for up to 12 months.

#### Liver enzymes

In patients with a known or suspected history of Hepatitis B or C infection and in patients treated with other medications associated with liver toxicity, monitoring of liver enzymes is recommended. Caution should be exercised and the risk weighed against the benefits of therapy for patients fitting the above profile as well as those with hepatic impairment.

Patients on **TRIPLOCO** or efavirenz containing antiretroviral treatment (ART) should be regularly monitored for jaundice (including a laboratory bilirubin and liver enzymes) and bleeding tendencies.

#### Patients with HIV and hepatitis B or C virus co-infection

Patients with chronic hepatitis B or C and treated with antiretroviral therapy are at an increased risk for severe and potentially fatal hepatic adverse reactions.

Medical practitioners should refer to current HIV treatment guidelines for the optimal management of HIV infection in patients co-infected with hepatitis B virus (HBV). In case of concomitant antiviral therapy for hepatitis B or C, please refer also to the Professional Information for these medicines. Patients co-infected with HIV and HBV who discontinue

**TRIPLOCO** should be closely monitored with both clinical and laboratory follow-up after stopping treatment. In patients with advanced liver disease or cirrhosis, treatment discontinuation is not recommended since post-treatment exacerbation of hepatitis may lead to hepatic decompensation.

Discontinuation of **TRIPLOCO** therapy in patients co-infected with HIV and HBV may be associated with severe, acute exacerbations of hepatitis.

#### Renal impairment (see section 4.3)

Efavirenz is not predominantly excreted by the kidneys while tenofovir disoproxil fumarate and emtricitabine are excreted by the kidneys. Since **TRIPLOCO** is a fixed-dose combination product and the dose of the individual components cannot be altered, patients with creatinine clearance less than 50 ml/min should not receive **TRIPLOCO**.

 $CrCl (ml/min) = \frac{140\text{-}age (years) \times weight (kg) (x 0.85 \text{ if female})}{72 \times \text{serum creatinine (mg/dL)}}$ 

Renal impairment, has been reported in association with the use of tenofovir disoproxil fumarate (see section 4.8).

It is recommended that creatinine clearance be calculated in all patients prior to initiating therapy and as clinically appropriate during therapy with **TRIPLOCO**. Routine monitoring of calculated creatinine clearance and serum phosphorus should be performed in patients at risk for renal impairment. **TRIPLOCO** should be avoided with concurrent or recent use of a nephrotoxic agent.

In patients with moderate to severe renal impairment, the terminal half-life of **TRIPLOCO** is increased due to decreased clearance. The dose of **TRIPLOCO** should therefore be adjusted (see section 4.2).

#### **QTc Prolongation**

QTc prolongation has been observed with the use of efavirenz (see sections 4.3 and 4.5). For patients at increased risk of Torsade de Pointes or who are receiving medicinal products with a known risk for Torsade de Pointes, the administration of **TRIPLOCO** is contraindicated (see section 4.3).

#### **Psychiatric symptoms**

There have been reports of patients treated with efavirenz, which is a component of **TRIPLOCO**, experiencing serious side effects such as severe depression, suicidal ideation, suicide attempts, aggressive behaviour, paranoid reactions and manic reactions.

Although efavirenz was associated with an increase in these psychiatric experiences, there are other associated factors such as a history of injection medicine use, psychiatric history and the use of psychiatric medication. Other adverse events such as death by suicide, psychosis like behaviour and delusions have been reported. Patients with psychiatric adverse experiences should seek medical evaluation for an assessment on whether their symptoms are related to the use of efavirenz, and thus **TRIPLOCO** (see section 4.8).

#### Nervous system symptoms

Nervous system symptoms that may be reported during treatment with **TRIPLOCO** are related to efavirenz, which has the potential to cause: dizziness, insomnia, impaired concentration, somnolence, abnormal dreams, hallucinations, euphoria, confusion, agitation, amnesia, stupor, abnormal thinking and depersonalisation.

Nervous system symptoms are more likely to abate after the first 2 to 4 weeks of therapy. It is important to inform patients that they can expect an improvement with continued therapy and that dosing at bedtime may improve the tolerability of nervous system symptoms. Co-administration of **TRIPLOCO** with alcohol or psychoactive medicines can result in additive central nervous system effects.

#### **Opportunistic infections**

Patients receiving **TRIPLOCO** should be advised that they may continue to develop opportunistic infections and other complications of HIV infection, and therefore they should remain under close observation by healthcare providers experienced in the treatment of patients with associated HIV disease. Regular monitoring of viral load and CD4 counts need to be done.

#### The risk of HIV transmission to others

Patients should be advised that current antiretroviral therapy, including **TRIPLOCO**, does not prevent the risk of transmission of HIV to others through sexual contact or blood contamination. Appropriate precautions should continue to be employed.

#### Triple nucleoside therapy

There have been reports of a high rate of virological failure and of emergence of resistance at an early stage when tenofovir disoproxil fumarate as in **TRIPLOCO**, was combined with lamivudine and abacavir as well as with lamivudine and didanosine as a once daily regimen.

#### **Mitochondrial dysfunction**

Nucleoside and nucleotide analogues have been demonstrated *in vitro* and *in vivo* to cause a variable degree of mitochondrial damage. There have been reports of mitochondrial dysfunction in HIV negative infants exposed *in utero* and/or post-natal to nucleoside analogues. Apart from lactic acidosis/hyperlactataemia (see above) other manifestations of mitochondrial dysfunction include haematological disorders (anaemia, neutropenia) and peripheral neuropathy. Some late-onset neurological disorders have been reported. It is not known whether the neurological disorders are transient or permanent. Any foetus exposed *in utero* to nucleoside and nucleotide analogues, even HIV negative infants/children, should have clinical and laboratory follow-up and should be fully investigated for possible mitochondrial dysfunction in case of relevant signs and symptoms.

#### Pancreatitis

Pancreatitis has been observed in some patients receiving **TRIPLOCO**. Pancreatitis must be considered whenever a patient develops abdominal pain, nausea, vomiting or elevated biochemical markers. Discontinue use of **TRIPLOCO** until diagnosis of pancreatitis is excluded.

#### Skin rash

Rashes may occur and are usually mild to moderate maculopapular skin eruptions that occur within the first two weeks of initiating efavirenz therapy. In most cases the rash resolves after one month of continuing efavirenz therapy. If treatment is interrupted due to the rash, it may be re-initiated later. The various skin rashes may be treated with antihistamines and/or corticosteroids if indicated. This may result in faster resolution and improved tolerability of the rash.

**TRIPLOCO** should be discontinued in patients experiencing the following skin rashes: rashes associated with blistering, desquamation, mucosal involvement, or rashes associated with fever.

#### **Bone effects**

The effects of when tenofovir disoproxil fumarate associated changes in bone mineral density and biochemical markers on long-term bone health and future fracture risk, are not known.

Osteomalacia associated with the use of tenofovir has been reported associated with proximal renal tubulopathy (see section 4.8).

HIV patients who have a history of pathologic bone fracture or are at risk for osteopenia should be considered for bone monitoring. Supplementation with Vitamin D and calcium may be beneficial. If bone abnormalities are suspected, then appropriate consultation must be sought.

#### Bone mineral density

Decreases in bone mineral density of spine and changes in bone biomarkers from baseline are significantly greater with tenofovir disoproxil fumarate as contained in **TRIPLOCO**. Decreases in bone mineral density of the hip are significantly greater. Clinically relevant bone fractures are reported. If bone abnormalities are suspected, then appropriate consultation should be obtained. Bone monitoring should be considered for HIV infected patients who have a history of pathologic bone fracture or are at risk of osteopenia.

**TRIPLOCO** may cause a reduction in bone mineral density. The effects of tenofovir disoproxil fumarate-associated changes in bone mineral density on long-term bone health and future fracture risk are currently unknown.

Bone monitoring should be considered for HIV infected patients who have a history of pathologic bone fracture or are at risk for osteopenia. Although the effect of supplementation with calcium and vitamin D was not studied, such supplementation may be beneficial for all patients. If bone abnormalities are suspected, then appropriate consultation should be obtained.

Bone abnormalities (infrequently contributing to fractures) may be associated with proximal renal tubulopathy.

#### Osteonecrosis

Although the aetiology is considered to be multifactorial (including corticosteroid use, alcohol consumption, severe immunosuppression, higher body mass index), cases of osteonecrosis have been reported, particularly in patients with advanced HIV-disease and/or long-term exposure to combination antiretroviral therapy (cART). Patients should be advised to seek medical advice if they experience joint aches and pain, joint stiffness or difficulty in movement.

#### Convulsions

Patients with a history of convulsions must be monitored for possible convulsions when using efavirenz therapy. Please see section 4.5 for anticonvulsants such as phenytoin and phenobarbital, for the precautions and plasma level monitoring that may be required.

#### Lipodystrophy and metabolic abnormalities

Combination antiretroviral therapy has been associated with the redistribution/accumulation of body fat, including central obesity, dorso-cervical fat, enlargement (buffalo hump), peripheral wasting, facial wasting, breast enlargement, and elevated serum lipid and glucose levels in HIV patients. Clinical examination should include evaluation for physical signs of fat redistribution. Patients with evidence of lipodystrophy should have a thorough cardiovascular risk assessment.

#### Immune Reconstitution Inflammatory Syndrome

Immune reconstitution inflammatory syndrome (IRIS) is an immunopathological response resulting from the rapid restoration of pathogen-specific immune responses to pre-existing antigens combined with immune dysregulation, which occurs shortly after starting combination Anti-Retroviral Therapy (cART). Typically, such reaction presents by paradoxical deterioration of opportunistic infections being treated or with unmasking of an asymptomatic opportunistic disease, often with an atypical inflammatory presentation. IRIS usually develops within the first three months of initiation of ART and occurs more commonly in patients with low CD4 counts. Common examples of IRIS reactions to opportunistic diseases are tuberculosis, cytomegalovirus retinitis, and cryptococcal meningitis.

Appropriate treatment of the opportunistic disease should be instituted or continued and ART continued. Inflammatory manifestations generally subside after a few weeks. Severe cases may respond to glucocorticoids, but there is only limited evidence for this in patients with tuberculosis IRIS. Autoimmune disorders (such as Graves' disease) have also been reported as IRIS reactions; however, the reported time to onset is more variable and these events can occur many months after initiation of treatment.

#### Paediatric use

Tenofovir disoproxil fumarate has not been adequately investigated for use in paediatric patients and therefore **TRIPLOCO** is not recommended for use in patients under the age of 18 years.

#### Use in the elderly

In general, elderly patients should be treated cautiously, with heightened awareness that this

population group tends to experience decreased hepatic, renal or cardiac function and that they usually have concomitant disease or other medicine therapy. There are insufficient studies on the use of efavirenz, emtricitabine and tenofovir by subjects 65 years and older to determine whether they do respond differently than younger subjects.

#### **Co-administration with related medicines**

Do not co-administer TRIPLOCO with the following related medicines:

- emtricitabine, tenofovir disoproxil fumarate, emtricitabine/tenofovir disoproxil fumarate and efavirenz.
- lamivudine, which is similar to emtricitabine including lamivudine/zidovudine, abacavir sulphate/lamivudine or abacavir sulphate/lamivudine/zidovudine.

#### Medicine interactions (see section 4.5)

**TRIPLOCO** is not recommended for use with products containing St. John's wort (*Hypericum perforatum*). Co-administration of non-nucleoside reverse transcriptase inhibitors (NNRTIs), including efavirenz, with St. John's wort is expected to substantially decrease NNRTI concentrations and this may result in suboptimal levels of efavirenz and lead to loss of virologic response and cause possible resistance to efavirenz or to the class of NNRTIs.

#### **Contains sodium**

This medicine contains less than 1 mmol sodium (23 mg) per film-coated tablet, that is to say essentially 'sodium-free'.

## **4.5 Interaction with other medicines and other forms of interaction** (see section 4.3 and 4.4) *Efavirenz*

Efavirenz is contraindicated for use with medicines that are eliminated predominantly by CYP3A4 hepatic enzymes and that rely on this isoenzyme for clearance (see section 4.3). Altered plasma concentrations may result after co-administration of efavirenz with medicines that are metabolised by isoenzymes 2C9, 2C19, and 3A4 (which are reportedly inhibited by efavirenz) and CYP3A4 (which is reportedly induced by efavirenz). Appropriate dose adjustments may be necessary. Inducers of the CYP3A4 isoenzyme can be expected to increase elimination of efavirenz resulting in lowered plasma concentrations. Medicines regarded as inducers of CYP3A4 include phenobarbital, rifampicin and rifabutin.

#### Emtricitabine and tenofovir disoproxil fumarate

Medicines such as acyclovir, adefovir, dipivoxil, cidofovir, ganciclovir, valacyclovir and valganciclovir may cause an increase in serum concentrations of emtricitabine and tenofovir. Emtricitabine and tenofovir are primarily eliminated by the kidneys, and therefore have the potential to interact with medicines that reduce renal function or compete for active tubular secretion. Caution should be exercised when **TRIPLOCO** is given with medicines with potential for this interaction since the serum concentrations of each medicine may increase.

Tenofovir increases the plasma concentrations of didanosine. Suppression of CD4 cell counts

have been observed in patients on a combination regimen of tenofovir disoproxil fumarate with didanosine at a daily dose of 400 mg. Patients receiving tenofovir disoproxil fumarate and didanosine should be monitored closely for didanosine-associated adverse events. This combination should be undertaken with caution. Didanosine should be discontinued in patients who develop didanosine-associated adverse events (Table 2 in section 4.5 can be consulted for didanosine dosing adjustment recommendations).

Although the mechanism of interaction is not clearly understood, atazanavir and lopinavir/ritonavir have been shown to increase tenofovir concentrations.

The impact of raised tenofovir serum concentrations may involve a higher incidence of tenofovirrelated adverse events including renal disorders. **TRIPLOCO** should be discontinued immediately in patients that experience tenofovir-related side effects. Table 2 in section 4.5 can be consulted for atazanavir dosing adjustment recommendations.

Important medicine interactions for **TRIPLOCO** are summarised in this leaflet and further tabulated in Table 1, based upon investigations of interaction profiles for the individual active ingredients efavirenz, emtricitabine and tenofovir disoproxil fumarate. Please also see section 4.3. Interaction studies for **TRIPLOCO** have not been conducted and therefore the information herein is not all inclusive but highlights potentially significant interactions.

Medicine name	Clinical comment
Antifungal:	Co-administration is <b>contraindicated</b> as efavirenz decreases
Voriconazole	voriconazole plasma concentrations and therapeutic efficacy,
	whereas voriconazole increases efavirenz plasma concentrations
	and thereby increasing the risk of efavirenz-related side effects.
Antihistamine:	Contraindicated as life-threatening adverse events like cardiac
Astemizole	dysrhythmias may occur.
Ergot derivatives:	Contraindicated as life-threatening adverse events like acute ergot
Dihydroergotamine	toxicity characterised by peripheral vasospasm and extreme
Ergonovine	ischaemia may occur.
Ergotamine	
Methylergonovine	
Anti-retrovirals:	Use is not recommended as emtricitabine, tenofovir disoproxil
Efavirenz	fumarate, emtricitabine-tenofovir disoproxil fumarate and efavirenz
Emtricitabine	are already active ingredients in <b>TRIPLOCO</b> . Lamivudine is similar to
Tenofovir disoproxil	emtricitabine.
fumarate	
Lamivudine	

 Table 1: Contraindicated medicines or medicines not recommended for use with

 TRIPLOCO

Benzodiazepines:	Contraindicated as life-threatening adverse events such as
Midazolam	prolonged or increased sedation or respiratory depression may
Triazolam	occur.
Calcium channel	Contraindicated as life-threatening adverse events like cardiac
blockers:	dysrhythmias may occur.
Bepridil	
Gastrointestinal	Contraindicated as life-threatening adverse events like cardiac
motility agent:	dysrhythmias may occur.
Cisapride	
Neuroleptic:	Contraindicated as life-threatening adverse events like cardiac
Pimozide	dysrhythmias may occur.
St. John's wort	Co-administration is not recommended as efavirenz plasma
(Hypericum	concentrations may be lowered significantly.
parforatum)	

# Table 2: Medicines with established interactions and dose recommendations due toknown or predicted interactions

Concomitant	Effect	Clinical comment	
Medicine Class:			
Medicine name			
Antiretroviral agents:		·	
Protease inhibitors			
Amprenavir	↓ amprenavir	Efavirenz may decrease serum concentrations of	
	concentration	amprenavir.	
Fosamprenavir	↓ amprenavir	Fosamprenavir (unboosted):	
calcium	concentration	Appropriate doses of fosamprenavir and	
		TRIPLOCO with respect to safety and efficacy	
		have not been established.	
		An additional 100 mg/day (300 mg total of	
		ritonavir) is recommended when TRIPLOCO is	
		administered with fosamprenavir/ritonavir once	
		daily. No change in the ritonavir dose is required	
		when TRIPLOCO is administered with	
		fosamprenavir plus ritonavir twice daily.	
Atazanavir	↓ atazanavir	Atazanavir concentrations are decreased by both	
	concentration	Tenofovir disoproxil fumarate and efavirenz.	
	↑ tenofovir	Therefore, co-administration of TRIPLOCO and	
	concentration	atazanavir is not recommended due to concerns	
		regarding decreased atazanavir concentrations.	
Indinavir	↓ indinavir	The optimal dose of indinavir when given in	

	concentration	combination with efavirenz is not known.
		Increasing the dose to 1 000 mg/8 hours does not
		compensate for the increased indinavir
		metabolism due to efavirenz.
Lopinavir/ritonavir	∣lopinavir	A dose increase of lopinavir/ritonavir to
	concentration	600/150 mg (3 tablets) twice daily may be
	↑ tenofovir	considered when used in combination with
	concentration	efavirenz
	Concontration	In treatment-experienced patients where
		decreased susceptibility to loninavir is clinically
		suspected (by treatment history or laboratory
		ovidence) If nationt monitoring reveals an
		increased incidence of tenefour related side
		offecte TRIPLOCO chevild be discontinued
Ditanovir	A of a viranz and	The combination of ritenautin 500 mg avenu
Ritonavii		The combination of hionavir 500 mg every
	ritonavir	12 nours and eravirenz 600 mg once daily, is
	concentrations	associated with a higher frequency of adverse
		clinical experiences (e.g. dizziness, nausea,
		paraesthesia) and laboratory abnormalities
		(elevated liver enzymes). Monitoring of liver
		enzymes is recommended when <b>TRIPLOCO</b> is
		used in combination with ritonavir.
Saquinavir	↓ saquinavir	If co-administered with <b>TRIPLOCO</b> , saquinavir
	concentration	should not be used as the sole protease inhibitor.
NRTI's		1
Didanosine	↑ didanosine	Didanosine-associated side effects such as
	concentration	pancreatitis and neuropathy may result from
		higher concentrations of didanosine. There is
		insufficient data to guide dose-adjustment in
		adult patients weighing less than 60 kg but for
		those over 60 kg the dose of didanosine must
		be decreased to 250 mg if co-administered
		with TRIPLOCO. Caution must be exercised if
		co-administration is desired and patients must
		be monitored closely for didanosine-related
		side effects. More information will appear on
		the didanosine professional information.
		When co-administered, efavirenz and didanosine
		may be taken under fasted conditions or with a
		light meal (less than 400 kcal, 20 % fat). Co-
		administration of TRIPLOCO and a buffered
		didanosine formulation should be under fasting conditions.

Anticoagulant:		
Warfarin	$\uparrow$ or ↓ warfarin	Monitor anti-coagulation levels (INR) as efavirenz
	concentration	has the potential to alter coagulation times.
Anticonvulsants		
Carbamazepine	$\downarrow$	Alternative anticonvulsant treatment should be
	carbamazepine	selected as the data is insufficient to guide dosing
	concentration	adjustment.
Phenytoin	↓ anticonvulsant	Potential for reduction in anticonvulsant and/or
Phenobarbital	concentration	efavirenz plasma levels; periodic monitoring of
	and	anticonvulsant plasma levels should be
	↓ efavirenz	conducted.
	concentration	
Antidepressants		
Sertraline	↓ sertraline	Clinical responses must guide an increase in the
	concentrations	sertraline dose.
Antifungals		
Itraconazole	↓ itraconazole	Consider alternative antifungal treatment because
	concentration	clinical dose recommendations are unknown.
	↓ hydroxy-	
	itraconazole	
	concentration	
Ketoconazole	↓ ketoconazole	The effects of ketoconazole and TRIPLOCO are
	concentration	unknown. Efavirenz may decrease plasma
		concentrations of ketoconazole.
Anti-infective		
Clarithromycin	↓ clarithromycin	No dose adjustment is needed for TRIPLOCO
	concentration	when used with clarithromycin. Azithromycin
	↑ 14-OH	should be considered as an alternative to
	metabolite	clarithromycin. Erythromycin and other macrolides
	concentration	have not been studied.
Antimycobacterials		
Rifabutin	↓ rifabutin	Increase daily dose of rifabutin by 50 %. Consider
	concentration	doubling the rifabutin dose in regimens where
		rifabutin is given 2 or 3 times a week.
Rifampicin	↓ efavirenz	Dosing recommendations for concomitant use of
	concentration	TRIPLOCO and rifampicin have not been
		established. Clinical significance of reduced
		efavirenz concentration is unknown.

Calcium channel bloc	Calcium channel blockers			
Diltiazem	↓ diltiazem	Diltiazem dose adjustments should be undertaken		
	concentration	in consultation with the diltiazem professional		
	↓ desacetyl	information, <b>TRIPLOCO</b> dose need not be		
	diltiazem	adjusted.,		
	concentration			
		The potential exists for reduction in plasma		
Others (e.g.	↓ N-	concentrations of the calcium channel blocker.		
felodipine,	monodesmethyl	Dose adjustments should be guided by clinical		
nicardipine,	diltiazem	response in consultation with the complete		
nefedipine,	concentration	professional information for the calcium channel		
verapamil)	↓ calcium	blocker.		
	channel blocker			
	concentration			
HMG-CoA reductase in	nhibitors			
Atorvastatin	↓ atorvastatin,	The concentrations of the HMG-CoA reductase		
Pravastatin	pravastatin and	inhibitors are decreased by efavirenz and dose		
Simvastatin	simvastatin	adjustments may be done with reference to the		
	concentrations	individual product professional information.		
Narcotic analgesics				
Methadone	↓ methadone	Co-administration of efavirenz in HIV-infected		
	concentrations	individuals with a history of injection medicine use		
		caused a decrease in methadone plasma levels		
		and signs of opiate withdrawal. Close patient		
		monitoring and dose adjustment to increase		
		methadone upon appearance of withdrawal		
		symptoms until alleviation of symptoms is		
		recommended.		
		Concomitant administration with TRIPLOCO is		
		contraindicated due to the risk for QTc		
		prolongation (see sections 4.3 and 4.4).		
Oral contraceptives	1			
Ethinyloestradiol	↑	As the potential interaction with efavirenz with oral		
	ethinyloestradiol	contraceptives has not been studied, a reliable		
	concentration	barrier contraceptive must be used in addition to		
		oral contraceptives.		

#### Efavirenz assay interference

#### Interference with cannabinoid tests

False positive urine cannabinoid test results have been observed in non-HIV-infected volunteers receiving efavirenz when the Microgenics Cedia DAU Multi-Level THC assay was used for screening, even though efavirenz does not bind to cannabinoid receptors. More specific confirmatory testing was performed with gas chromatography/ mass spectrometry to reveal and

confirm negative results. For more information, please consult the professional information for efavirenz.

#### 4.6 Fertility, pregnancy and lactation Women of childbearing potential

Women of childbearing age who are using **TRIPLOCO** should avoid falling pregnant and should ensure this by using a barrier method of contraception in combination with other methods of contraception. Pregnancy testing should also be conducted prior to initiating **TRIPLOCO** treatment.

#### Contraception in males and females

Barrier contraception should always be used in combination with other methods of contraception (for example, oral or other hormonal contraceptives, see section 4.5) while on therapy with **TRIPLOCO**. Because of the long half-life of efavirenz, use of adequate contraceptive measures for 12 weeks after discontinuation of **TRIPLOCO** is recommended.

#### Pregnancy

**TRIPLOCO** should not be used during pregnancy.

Administration of efavirenz in the first trimester has the potential to cause harm to the unborn foetus and should the woman become pregnant, she should be educated on the potential harm to the foetus.

Efavirenz has been associated with teratogenicity in animals. Retrospective studies of pregnancies with first-trimester exposure to efavirenz as part of a combination regimen have noted a few cases of neural tube defects, including meningomyelocele.

#### Breastfeeding

# TRIPLOCO should not be taken by breast-feeding women. Mothers should be instructed that they may not breastfeed their infants if they are on TRIPLOCO in order to avoid transmission of HIV to the infant.

Efavirenz, emtricitabine and tenofovir have been shown to be excreted in human milk. There is insufficient information on the effects of efavirenz, emtricitabine and tenofovir in newborns/infants. A risk to the infants cannot be excluded.

#### Fertility

No human data on the effect of **TRIPLOCO** are available. Animal studies do not indicate harmful effects of efavirenz, emtricitabine or tenofovir disoproxil on fertility.

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

Co-administration of **TRIPLOCO** with alcohol or psychoactive medicines can result in additive central nervous system effects. Patients experiencing central nervous system symptoms such as dizziness, impaired concentration and/or drowsiness should avoid tasks related to operation of

machinery and other potentially hazardous tasks.

#### 4.8 Undesirable effects

The Professional Information for efavirenz, emtricitabine and tenofovir disoproxil fumarate in combination with other anti-retroviral medicines, can be referred to for additional information **TRIPLOCO** side effects are summarised in the tables below.

System Organ	Side effects	Side effects	Efavirenz,
Class	observed with	observed with	emtricitabine and
	efavirenz	emtricitabine and	Tenofovir in
		tenofovir	combination: The
			following side
			effects have been
			reported to occur
Infections and			Frequent:
infestations			Sinusitis, upper
			respiratory tract
			infections,
			nasopharyngitis
Blood and		Frequency unknown:	
lymphatic		Neutropenia, anaemia	
system			
disorders			
Immune system			Frequent:
disorders			Immune reconstitution
			syndrome
Endocrine		Frequency unknown:	Frequency unknown:
disorders		Sweating,	Cushingoid
		nephrogenic diabetes	appearance,
		insipidus	accumulation of body
			fat, dorsocervical fat
			enlargement (buffalo
			hump)
Metabolism and	Frequency unknown:	Frequent:	
nutrition	Anorexia	Anorexia, lactic	
disorders		acidosis	
Psychiatric	Frequent:	Frequent:	Frequent:
disorders	Impaired	Anxiety, headaches	Depression, insomnia,
	concentration,		abnormal dreams
	anxiety, nervousness,	Less frequent:	
	euphoria, confusion,	Abnormal dreams	
	somnolence		

Table 3: Side effects associated with the use of TRIPLOCO active ingredients

	amnesia, abnormal	Frequency unknown:	
	thinking or dreaming	Depression, insomnia	
	Frequency unknown:		
	Aggressive behaviour,		
	suicidal thoughts or		
	attempts		
Nervous system	Frequent:	Less frequent:	Frequent:
disorders	, Headache. dizziness.	, Paraesthesia.	, Somnolence.
	insomnia	peripheral	headache, dizziness
	Less frequent	neuropathy, anxiety,	
	Hypoaesthesia	insomnia dizziness	
	convulsions	headache	
	denersonalisation		
	naraesthesia		
Ear and labyrinth	Loss froquent:		
disordors	Tippituo		
Beeniretery		Fraguanti	
Respiratory,	Frequency unknown:	Frequent:	
thoracic and	Dysphoea	Cougn, minitis,	
mediastinal		pneumonia	
disorders			
		Less frequent:	
		Dyspnoea	
Gastrointestinal	Frequent:	Frequent:	Frequent:
disorders	Dyspepsia, abdominal	Dyspepsia, abdominal	Diarrhoea, nausea,
	pain, pancreatitis,	pain <sup>,</sup> diarrhoea,	vomiting
	diarrhoea, nausea,	nausea, vomiting,	
	vomiting	flatulence	
	Frequency unknown:	Less frequent:	
	Constipation,	Pancreatitis	
	malabsorption		
Hepato-biliary	Frequent.	Less frequent:	
disorders	Raised liver enzymes	Hepatotoxicity	
	Frequency		
	unknown: Hepatic	Frequency	
	failure	unknown: Hepatitis	
Skin and	Frequent: Pruritis,	Frequent:	Frequent:
subcutaneous	skin rash	Rash event, pruritis	Rash
tissue disorders			
	Less frequent:	Less frequent:	

	Erythema multiforme,	Hyperpigmentation of	
	Stevens-Johnson	soles and/or palms,	
	syndrome,	maculopapular and	
	photoallergic	vesiculobullous rash,	
	dermatitis, skin	urticaria	
	discolouration		
Musculoskeletal,	Frequent:	Frequent:	
connective	Arthralgia, myalgia	Back pain, bone	
tissue and bone		density decreased	
disorders	Frequency unknown: Myopathy	(see section 4.4)	
		Less frequent:	
		Mvalgia, bone pain.	
		osteomalacia.	
		arthralgia, myopathy	
Renal and		Frequency unknown:	
urinary		Nephritis, acute renal	
disorders		failure, renal	
		impairment, Fanconi's	
		syndrome, acute	
		tubular necrosis,	
		polyuria, proximal	
		renal tubulopathy	
Reproductive		Frequency unknown:	
system and		Breast enlargement	
breast disorders			
General	Frequency unknown:	Frequency unknown:	Frequent:
disorders and	Fatigue	Fatigue	Fatigue
administrative			
site conditions			
Investigations	Less frequent:	Frequency	Frequency unknown:
	Raised serum	unknown: Elevations	Laboratory
	cholesterol and	of bilirubin, pancreatic	abnormalities related
	triglycerides, raised	amylase, serum	to fasting cholesterol,
	serum amylases	glucose, urine	creatine kinase,
		glucose, raised serum	serum amylase,
		amylase,	alkaline phosphatise,
		hypophosphataemia,	AST, ALT,
		raised liver enzymes	haemoglobin,
			hyperglycaemia,
			haematuria,
			neutrophils, fasting
			triglycerides,

	hypertriglyceridemia,
	hypercholesterolaemi
	a, insulin resistance,
	hyperlactataemia,
	hyperlipidaemia

#### Table 4: Side effects reported from post-marketing surveillance of TRIPLOCO

System Organ	Efavirenz	Tenofovir	Emtricitabine
Class			
Immune system	Allergic reactions,	Allergic reactions	No additional events
disorders	immuno-allergic liver		have been identified
	injury failure		for inclusion in this
Endocrine	Gynaecomastia		section.
disorders			
Metabolism and	Redistribution/	Hypophosphataemia,	
nutrition	accumulation of body	lactic acidosis	
disorders	fat (see section 4.4),		
	hypercholesterolaemia,		
	hypertriglyceridemia		
Psychiatric	Aggressive reactions,		
disorders	agitation, delusions,		
	emotional lability,		
	mania, neurosis,		
	paranoia, psychosis,		
	suicide		
Nervous system	Abnormal co-		
disorders	ordination, ataxia,		
	convulsions,		
	hypoesthesia, tremor		
Eye disorders	Abnormal vision		
Ear and	Tinnitus		
labyrinth			
disorders			
Cardiac	Palpitations		
disorders			
Respiratory,	Dyspnoea	Dyspnoea	
thoracic and			
mediastinal			
disorders			
1			

Gastrointestinal	Constipation,		
disorders	malabsorption		
Hepato-biliary	Hepatic enzyme	Increased liver	
disordors	increases in honatic	onzymos honotitis	
uisoi uei s		enzymes, nepatitis	
	Tallure, nepatitis		
Skin and	Flushing, erythema	Rash	
subcutaneous	multiforme, nail		
tissue disorders	disorders, photoallergic		
	dermatitis, skin		
	discolouration.		
	Stevens-Johnson		
	syndrome		
Musculoskeletal	Myonathy	Myopathy	
connoctivo		ostoomalacia (both	
tionus and hans			
dissue and bone			
aisoraers		proximal renal	
		tubulopathy)	
Renal and		Renal insufficiency,	
urinary		renal failure, acute	
disorders		renal failure, Fanconi	
		syndrome, proximal	
		tubulopathy,	
		proteinuria, increased	
		creatinine, acute	
		tubular necrosis.	
		nephrogenic diabetes	
		insinidus nolvuria	
		interstitial penhritis	
		(including south	
Osmanal	Astherais	Cases)	
General	Asthenia	Asthenia	
disorders and			
administrative			
site conditions			

#### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Healthcare providers are asked to report any suspected adverse reactions to SAHPRA via the Med Safety APP (Medsafety X SAHPRA) and eReporting platform (who-umc.org) found on SAHPRA website.

#### 4.9 Overdose

Standard supportive treatment should be applied for patients who have overdosed on **TRIPLOCO**. Treatment is based on evidence of toxicity and monitoring of vital signs as well as observation of the patient's clinical status.

#### Efavirenz

Accidental intake of > 600 mg of efavirenz has resulted in nervous system symptoms such as involuntary muscle contractions.

Unabsorbed efavirenz may be removed by activated charcoal. Efavirenz is not effectively removed by haemodialysis.

#### Emtricitabine and tenofovir disoproxil fumarate

There is no data of severe side effects for emtricitabine and tenofovir disoproxil fumarate. The available studies are at the prescribed doses and therefore data is limited. Emtricitabine and tenofovir may be removed by haemodialysis.

A 3-hour haemodialysis period starting 1,5 hours post-dosing (blood flow rate of 400 ml/min and a dialysate flow rate of 600 ml/min) may be able to remove around 30 % of the emtricitabine dose. It is not known whether emtricitabine can be removed by peritoneal dialysis.

The extraction coefficient of 54 % for tenofovir results in efficient removal. A 4-hour haemodialysis session following a 300 mg single-dosing of tenofovir disoproxil fumarate may be able to remove approximately 10 % of the administered dose.

#### 5. PHARMACOLOGICAL PROPERTIES

#### 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: A 20.2.8 Antiviral agents Antiviral for systemic use, antivirals for treatment of HIV infections, combinations, ATC code: J05AR06

**TRIPLOCO** is a fixed dose combination film-coated tablet containing efavirenz, emtricitabine and tenofovir disoproxil fumarate.

#### Efavirenz

Efavirenz is a non-nucleoside reverse transcriptase (RT) inhibitor (NNRTI) of HIV-1 but is not an inhibitor of HIV-2 RT and human cellular DNA polymerases  $\alpha$ ,  $\beta$ ,  $\gamma$ ,  $\delta$ . Efavirenz activity is mediated predominantly by non-competitive inhibition of HIV-1 RT.

#### Emtricitabine

Emtricitabine is a synthetic nucleoside cytidine analogue and a nucleoside reverse transcriptase inhibitor (NRTI) that is phosphorylated intracellularly to form emtricitabine 5'-triphosphate. Emtricitabine 5'-triphosphate inhibits HIV-1 RT by competing with the natural substrate deoxycytidine 5'-triphosphate and by being incorporated into the emerging viral DNA, an event that results in DNA chain termination. Emtricitabine has a low affinity for mammalian DNA polymerases  $\alpha$ ,  $\beta$ , and  $\epsilon$  and mitochondrial DNA polymerase  $\gamma$ .

#### Tenofovir disoproxil fumarate

Tenofovir disoproxil fumarate is an acyclic nucleoside phosphate diester analogue of adenosine monophosphate and is a nucleotide reverse transcriptase inhibitor (NRTI). Initial diester hydrolysis is required for conversion of tenofovir disoproxil fumarate to tenofovir and subsequently to tenofovir diphosphate through phosphorylations by cellular enzymes. Tenofovir is converted intracellularly in stages to the diphosphate. The tenofovir diphosphate competitively inhibits HIV-1 RT and incorporation into viral DNA. Tenofovir diphosphate inhibits the activity of HIV-1 RT by competing with the natural substrate deoxyadenosine 5'-triphosphate and after the incorporation into DNA, by DNA chain termination. Tenofovir diphosphate has a low affinity for mammalian DNA polymerases  $\alpha$  and  $\beta$  and mitochondrial DNA polymerase  $\gamma$ .

#### Antiviral activity

Co-formulation of efavirenz and tenofovir or emtricitabine and tenofovir or emtricitabine and efavirenz exhibits additive to synergistic antiviral effects in cell cultures.

#### Efavirenz

Efavirenz demonstrates additive antiviral activity against HIV-1 when combined with nonnucleoside reverse transcriptase inhibitors (NNRTIs) (delaviridine and nevirapine), nucleoside reverse transcriptase inhibitors (NRTIs) (abacavir, didanosine, lamivudine, stavudine, zalcitabine and zidovudine), protease inhibitors (PIs) (amprenavir, indinavir, lopinavir, nelfinavir, ritonavir and saquinavir) and the fusion inhibitor enfuvirtide. Efavirenz is not active against HIV-2.

#### Emtricitabine

In medicine combinations of emtricitabine with NRTIs, NNRTIs and PIs, additive to synergistic effects have been observed.

#### Tenofovir disoproxil fumarate

In medicine combinations of tenofovir with NRTIs, NNRTIs and PIs, additive to synergistic effects have been observed.

#### Resistance

Resistance to efavirenz and the emergence of cross-resistant strains to other NNRTIs has been observed.

Resistance to emtricitabine may occur and the emergence of cross-resistance to other NRTIs may occur.

Resistance to tenofovir may be observed in some strains of HIV, and cross-resistance to other reverse transcriptase inhibitors may occur.

Cross-resistance among the medicines tenofovir, lamivudine, emtricitabine, abacavir, didanosine, may occur in patients whose virus harbours either M184V/I and/or K65R amino acid substitutions. These amino acid substitutions have been observed in cell culture but are also observed in some HIV-1 isolates from subjects failing treatment by the combination of tenofovir with emtricitabine or lamivudine, and either abacavir or didanosine.

#### 5.2 Pharmacokinetic properties

#### Efavirenz

Following oral administration, efavirenz is absorbed and peak plasma concentrations are achieved in about 3 to 5 hours. Steady state plasma concentrations following multiple doses are observed after about 6 to 10 days. Efavirenz is highly bound to human plasma proteins especially albumin. Efavirenz is predominantly metabolised by hepatic CYP450 isoenzymes CYP3A4 and CYP2B6. CYP450 enzymes are induced by efavirenz, thereby efavirenz induces its own metabolism. The terminal half-life following multiple doses of efavirenz is 40 to 55 hours while the terminal half-life after a single dose is 52 to 72 hours. 14 to 34 % of a dose is excreted via urinary excretion and 16 to 61 % is excreted as unchanged efavirenz via faecal excretion mechanisms.

#### Emtricitabine

Following oral administration, emtricitabine is absorbed through the gastrointestinal tract. Peak plasma concentrations are achieved within 1 to 2 hours while the plasma elimination half-life is 10 hours. The mean absolute bioavailability of emtricitabine is 93 %. Emtricitabine is bound minimally to plasma proteins with binding reported to be less than 4 %. It is excreted primarily unchanged in the urine and to a lesser extent in the faeces so it is metabolised to a restricted extent. Haemodialysis is partially capable of removing emtricitabine.

#### Tenofovir disoproxil fumarate

Following single oral dosing, tenofovir disoproxil fumarate 300 mg is absorbed from the gastrointestinal tract. Peak plasma concentrations are achieved after 1 to 2 hours. Oral bioavailability is approximately 25 % in fasted patients. Tenofovir has a plasma elimination half-life of approximately 17 hours after a single oral dose. Distribution of tenofovir is wide spread predominantly into the kidneys and liver and also into other body tissues. Plasma protein binding is minimal at 1 % and to serum proteins at 7 %. Excretion of tenofovir is predominantly via urinary excretion by both active tubular secretion and glomerular filtration. Haemodialysis is capable of removing tenofovir.

#### Effects of food on oral absorption

TRIPLOCO has not been evaluated in the presence of food.

#### Efavirenz

Efavirenz administered with a high fat meal can result in AUC increases up to 28 % and  $C_{max}$  increases up to 79 %.

#### Emtricitabine

Emtricitabine and tenofovir disoproxil fumarate combined administrations with a light meal or a high fat meal can exhibit tenofovir disoproxil fumarate AUC increases of up to 35 % and tenofovir disoproxil fumarate  $C_{max}$  increases of up to 15 %, without any effects on emtricitabine exposure.

#### Tenofovir disoproxil fumarate

Oral bioavailability of tenofovir disoproxil fumarate can be improved from the average 25 % when it is taken with a high fat meal.

#### Characteristics of specific patient groups Paediatric and elderly patients

**TRIPLOCO** has not been studied in patients less than 18 years old and is therefore not recommended for use in this population group. **TRIPLOCO** has not been fully evaluated for use in elderly patients (older than 65 years of age).

#### **Renal impairment**

Efavirenz has not been studied in patients with renal impairment. However less than 1 % of efavirenz is excreted unchanged into the urine. Therefore, the impact of renal impairment on the elimination of efavirenz should be minimal.

The pharmacokinetics of emtricitabine and tenofovir disoproxil fumarate are affected in patients with renal insufficiency. When creatinine clearance is less than 50 ml/min, the AUC<sub>0- $\infty$ </sub> and C<sub>max</sub> of emtricitabine and tenofovir disoproxil fumarate is increased for both active ingredients (see sections 4.2, 4.3 and 4.4).

#### Hepatic impairment

The impact of efavirenz on hepatic impairment has not been studied.

There is no evidence of pharmacokinetic changes in patients with hepatic impairment when compared to healthy patients with normal liver function. Emtricitabine is not significantly metabolised by liver enzymes and therefore the impact of liver impairment should be limited.

Studies of tenofovir in non-HIV infected patients with moderate to severe hepatic impairment did not demonstrate substantial pharmacokinetic changes.

#### 6. PHARMACEUTICAL PARTICULARS

#### 6.1 List of excipients *Tablet core:* Croscarmellose sodium Hydroxypropyl cellulose Magnesium stearate Microcrystalline cellulose Sodium lauryl sulphate

*Film coating:* Opadry II Pink: Macrogol/polyethylene glycol (E1521) Iron oxide black (E172) Iron oxide red (E172) Polyvinyl alcohol-part hydrolysed (E1203) Talc (E553b) Titanium dioxide (E171)

6.2 Incompatibilities

Not applicable

6.3 Shelf life

36 months

**6.4 Special precautions for storage** Store at or below 25 °C. Keep well closed.

#### 6.5 Nature and contents of the container

**TRIPLOCO** is packed as 28's, 30's, 60's, 84's, 90's, 120's, 180's and 500's in white opaque, heavy weight high density polyethylene (HDPE) bottles with child-resistant closures and a silica gel desiccant sachet.

Not all packs sizes may be marketed.

#### 6.6 Special precautions for disposal and other handling

No special precautions

#### 7. HOLDER OF CERTIFICATE OF REGISTRATION

Adcock Ingram Limited 1 New Road Erand Gardens Midrand, 1685 Customer care: 0860 ADCOCK/232625

#### 8. REGISTRATION NUMBER(S)

47/20.2.8/0326

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

19 April 2013

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

06 March 2025

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