

SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

Tenofovir Alafenamide Tablets 25 mg

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each film-coated tablet contains:

25 mg of tenofovir Alafenamide (equivalent to 28 mg of Tenofovir Alafenamide fumarate)

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film-coated tablet.

White to off white, round shaped, film coated tablets debossed with 'L3' on one side and plain on the other side.

4. CLINICAL PARTICULARS

4.1. Therapeutic indications

Tenofovir alafenamide tablets are indicated for the treatment of chronic hepatitis B in adults and adolescents (aged 12 years and older with body weight at least 35 kg) (see section 5.1).

4.2. Posology and method of administration

Therapy should be initiated by a physician experienced in the management of chronic hepatitis B.

Posology

Adults and adolescents (aged 12 years and older with body weight at least 35 kg): one tablet once daily.

Treatment discontinuation

Treatment discontinuation may be considered as follows (see section 4.4):

- In HBeAg-positive patients without cirrhosis, treatment should be administered for at least 6-12 months after HBe seroconversion (HBeAg loss and HBV DNA loss with anti-HBe detection) is confirmed or until HBs seroconversion or until there is loss of efficacy (see section 4.4). Regular reassessment is recommended after treatment discontinuation to detect virological relapse.
- In HBeAg-negative patients without cirrhosis, treatment should be administered at least until HBs seroconversion or until there is evidence of loss of efficacy. With prolonged treatment for more than 2 years, regular reassessment is recommended to confirm that continuing the selected therapy remains appropriate for the patient.

Missed dose

If a dose is missed and less than 18 hours have passed from the time it is usually taken, the patient should take Tenofovir alafenamide tablets as soon as possible and then resume their normal dosing schedule. If more than 18 hours have passed from the time it is usually taken, the patient should not take the missed dose and should simply resume the normal dosing schedule.

If the patient vomits within 1 hour of taking Tenofovir alafenamide tablets, the patient should take another tablet. If the patient vomits more than 1 hour after taking Tenofovir alafenamide tablets, the patient does not need to take another tablet.

Special populations

Elderly

No dose adjustment of Tenofovir alafenamide tablets are required in patients aged 65 years and older (see section 5.2).

Renal impairment

No dose adjustment of Tenofovir alafenamide tablets are required in adults or adolescents (aged at least 12 years and of at least 35 kg body weight) with estimated creatinine clearance (CrCl) \geq 15 mL/min or in patients with CrCl < 15 mL/min who are receiving haemodialysis.

On days of haemodialysis, Tenofovir alafenamide tablets should be administered after completion of haemodialysis treatment (see section 5.2).

No dosing recommendations can be given for patients with CrCl < 15 mL/min who are not receiving haemodialysis (see section 4.4).

Hepatic impairment

No dose adjustment of Tenofovir alafenamide tablets are required in patients with hepatic impairment (see sections 4.4 and 5.2).

Paediatric population

The safety and efficacy of Tenofovir alafenamide tablets in children younger than 12 years of age, or weighing < 35 kg, have not yet been established. No data are available.

Method of administration

Oral administration. Tenofovir alafenamide film-coated tablets should be taken with food.

4.3. Contraindications

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

4.4. Special warnings and precautions for use

HBV transmission

Patients must be advised that Tenofovir alafenamide tablets do not prevent the risk of transmission of HBV to others through sexual contact or contamination with blood. Appropriate precautions must continue to be used.

Patients with decompensated liver disease

There are no data on the safety and efficacy of Tenofovir alafenamide tablets in HBV infected patients with decompensated liver disease and who have a Child Pugh Turcotte (CPT) score > 9 (i.e. class C). These patients may be at higher risk of experiencing

serious hepatic or renal adverse reactions. Therefore, hepatobiliary and renal parameters should be closely monitored in this patient population (see section 5.2).

Exacerbation of hepatitis

Flares on treatment

Spontaneous exacerbations in chronic hepatitis B are relatively common and are characterised by transient increases in serum alanine aminotransferase (ALT). After initiating antiviral therapy, serum ALT may increase in some patients. In patients with compensated liver disease, these increases in serum ALT are generally not accompanied by an increase in serum bilirubin concentrations or hepatic decompensation. Patients with cirrhosis may be at a higher risk for hepatic decompensation following hepatitis exacerbation, and therefore should be monitored closely during therapy.

Flares after treatment discontinuation

Acute exacerbation of hepatitis has been reported in patients who have discontinued treatment for hepatitis B, usually in association with rising HBV DNA levels in plasma. The majority of cases are self-limited but severe exacerbations, including fatal outcomes, may occur after discontinuation of treatment for hepatitis B. Hepatic function should be monitored at repeated intervals with both clinical and laboratory follow-up for at least 6 months after discontinuation of treatment for hepatitis B. If appropriate, resumption of hepatitis B therapy may be warranted.

In patients with advanced liver disease or cirrhosis, treatment discontinuation is not recommended since post-treatment exacerbation of hepatitis may lead to hepatic decompensation. Liver flares are especially serious, and sometimes fatal in patients with decompensated liver disease.

Renal impairment

Patients with creatinine clearance < 30 mL/min

The use of Tenofovir alafenamide tablets once daily in patients with CrCl \geq 15 mL/min but < 30 mL/min and in patients with CrCl < 15 mL/min who are receiving haemodialysis is based on very limited pharmacokinetic data and on modelling and simulation. There are no safety data on the use of Tenofovir alafenamide tablets to treat HBV infected patients with CrCl < 30 mL/min.

The use of Tenofovir alafenamide tablets are not recommended in patients with CrCl < 15 mL/min who are not receiving haemodialysis (see section 4.2).

Nephrotoxicity

A potential risk of nephrotoxicity resulting from chronic exposure to low levels of tenofovir due to dosing with Tenofovir alafenamide cannot be excluded (see section 5.3).

Patients co-infected with HBV and hepatitis C or D virus

There are no data on the safety and efficacy of Tenofovir alafenamide tablets in patients co-infected with hepatitis C or D virus. Coadministration guidance for the treatment of hepatitis C should be followed (see section 4.5).

Hepatitis B and HIV co-infection

HIV antibody testing should be offered to all HBV infected patients whose HIV-1 infection status is unknown before initiating therapy with Tenofovir alafenamide tablets. In patients who are co-infected with HBV and HIV, Tenofovir alafenamide tablets

should be co-administered with other antiretroviral agents to ensure that the patient receives an appropriate regimen for treatment of HIV (see section 4.5).

Co-administration with other medicinal products

Tenofovir alafenamide tablets should not be co-administered with medicinal products containing tenofovir alafenamide, tenofovir Disoproxil fumarate or adefovir dipivoxil.

Co-administration of Tenofovir alafenamide tablets with certain anticonvulsants (e.g. carbamazepine, oxcarbazepine, phenobarbital and phenytoin), antimycobacterials (e.g. rifampicin, rifabutin and rifapentine) or St. John's wort, all of which are inducers of P-glycoprotein (P-gp) and may decrease tenofovir alafenamide plasma concentrations, is not recommended.

Co-administration of Tenofovir alafenamide tablets with strong inhibitors of P-gp (e.g. itraconazole and ketoconazole) may increase Tenofovir alafenamide plasma concentrations. Co-administration is not recommended.

Lactose intolerance

Tenofovir alafenamide tablets contains lactose monohydrate. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicinal product.

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

Interaction studies have only been performed in adults.

Tenofovir alafenamide tablets should not be co-administered with medicinal products containing tenofovir disoproxil fumarate, Tenofovir alafenamide or adefovir dipivoxil.

Medicinal products that may affect tenofovir Alafenamide

Tenofovir alafenamide is transported by P-gp and breast cancer resistance protein (BCRP). Medicinal products that are P-gp inducers (e.g., rifampicin, rifabutin, carbamazepine, phenobarbital or St. John's wort) are expected to decrease plasma concentrations of tenofovir alafenamide, which may lead to loss of therapeutic effect of Tenofovir alafenamide tablets. Co-administration of such medicinal products with Tenofovir alafenamide tablets is not recommended.

Co-administration of Tenofovir alafenamide tablets with medicinal products that inhibit P-gp and BCRP may increase plasma concentrations of tenofovir alafenamide. Co-administration of strong inhibitors of P-gp with Tenofovir alafenamide tablets is not recommended.

Tenofovir alafenamide is a substrate of OATP1B1 and OATP1B3 in vitro. The distribution of tenofovir alafenamide in the body may be affected by the activity of OATP1B1 and/or OATP1B3.

Effect of tenofovir alafenamide on other medicinal products

Tenofovir alafenamide is not an inhibitor of CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, or CYP2D6 in vitro. It is not an inhibitor or inducer of CYP3A in vivo.

Tenofovir alafenamide is not an inhibitor of human uridine diphosphate glucuronosyl transferase (UGT) 1A1 in vitro. It is not known whether tenofovir alafenamide is an inhibitor of other UGT enzymes.

Drug interaction information for Tenofovir alafenamide tablets with potential

concomitant medicinal products is summarised in Table 1 below (increase is indicated as “↑”, decrease as “↓”, no change as “↔”; twice daily as “b.i.d.”, single dose as “s.d.”, once daily as “q.d.”; and intravenously as “IV”). The drug interactions described are based on studies conducted with Tenofovir alafenamide, or are potential drug interactions that may occur with Tenofovir alafenamide tablets.

Table 1: Interactions between Tenofovir alafenamide tablets and other medicinal products

Medicinal product by therapeutic areas	Effects on drug levels. ^{a,b} Mean ratio (90% confidence interval) for AUC, C _{max} , C _{min}	Recommendation concerning co-administration with Tenofovir alafenamide
ANTICONVULSANTS		
Carbamazepine (300 mg orally, b.i.d.) Tenofovir alafenamide ^c (25 mg orally, s.d.)	<i>Tenofovir alafenamide</i> ↓ C _{max} 0.43 (0.36, 0.51) ↓ AUC 0.45 (0.40, 0.51) <i>Tenofovir</i> ↓ C _{max} 0.70 (0.65, 0.74) ↔ AUC 0.77 (0.74, 0.81)	Co-administration is not recommended.
Oxcarbazepine Phenobarbital	<i>Interaction not studied. Expected:</i> ↓ <i>Tenofovir alafenamide</i>	Co-administration is not recommended.
Phenytoin	<i>Interaction not studied. Expected:</i> ↓ <i>Tenofovir alafenamide</i>	Co-administration is not recommended.
Midazolam ^d (2.5 mg orally, s.d.) Tenofovir alafenamide ^c (25 mg orally, q.d.)	<i>Midazolam</i> ↔ C _{max} 1.02 (0.92, 1.13) ↔ AUC 1.13 (1.04, 1.23)	No dose adjustment of midazolam (administered orally or IV) is required.
Midazolam ^d (1 mg IV, s.d.) Tenofovir alafenamide ^c (25 mg orally, q.d.)	<i>Midazolam</i> ↔ C _{max} 0.99 (0.89, 1.11) ↔ AUC 1.08 (1.04, 1.14)	
ANTIDEPRESSANTS		

<p>Sertraline (50 mg orally, s.d.)</p> <p>Tenofovir alafenamide^e (10 mg orally, q.d.)</p>	<p><i>Tenofovir alafenamide</i> ↔ C_{max} 1.00 (0.86, 1.16) ↔ AUC 0.96 (0.89, 1.03)</p> <p><i>Tenofovir</i> ↔ C_{max} 1.10 (1.00, 1.21) ↔ AUC 1.02 (1.00, 1.04) ↔ C_{min} 1.01 (0.99, 1.03)</p>	<p>No dose adjustment of Tenofovir Alafenamide tablets or sertraline is required.</p>
<p>Sertraline (50 mg orally, s.d.)</p> <p>Tenofovir alafenamide^e (10 mg orally, q.d.)</p>	<p><i>Sertraline</i> ↔ C_{max} 1.14 (0.94, 1.38) ↔ AUC 0.93 (0.77, 1.13)</p>	
<p>ANTIFUNGALS</p>		
<p>Itraconazole Ketoconazole</p>	<p>Interaction not studied. <i>Expected:</i> ↑ Tenofovir alafenamide</p>	<p>Co-administration is not recommended.</p>
<p>ANTIMYCOBACTERIALS</p>		
<p>Rifampicin Rifapentine</p>	<p>Interaction not studied. <i>Expected:</i> ↓ Tenofovir alafenamide</p>	<p>Co-administration is not recommended.</p>
<p>Rifabutin</p>	<p>Interaction not studied. <i>Expected:</i> ↓ Tenofovir alafenamide</p>	<p>Co-administration is not recommended.</p>

HCV ANTIVIRAL AGENTS		
Sofosbuvir (400 mg orally, q.d.)	Interaction not studied. <i>Expected:</i> ↔ Sofosbuvir ↔ GS-331007	No dose adjustment of Tenofovir Alafenamide tablets or sofosbuvir is required.
Ledipasvir/sofosbuvir (90 mg/400 mg orally, q.d.) Tenofovir alafenamide ^f (25 mg orally, q.d.)	<i>Ledipasvir</i> ↔ C _{max} 1.01 (0.97, 1.05) ↔ AUC 1.02 (0.97, 1.06) ↔ C _{min} 1.02 (0.98, 1.07) <i>Sofosbuvir</i> ↔ C _{max} 0.96 (0.89, 1.04) ↔ AUC 1.05 (1.01, 1.09) <i>GS-331007^g</i> ↔ C _{max} 1.08 (1.05, 1.11) ↔ AUC 1.08 (1.06, 1.10) ↔ C _{min} 1.10 (1.07, 1.12) <i>Tenofovir alafenamide</i> ↔ C _{max} 1.03 (0.94, 1.14) ↔ AUC 1.32 (1.25, 1.40) <i>Tenofovir</i> ↑ C _{max} 1.62 (1.56, 1.68) ↑ AUC 1.75 (1.69, 1.81) ↑ C _{min} 1.85 (1.78, 1.92)	No dose adjustment of Tenofovir Alafenamide tablets or ledipasvir/Sofosbuvir is required.
Sofosbuvir/velpatasvir (400 mg/100 mg orally, q.d.)	Interaction not studied. <i>Expected:</i> ↔ Sofosbuvir ↔ GS-331007 ↔ Velpatasvir ↑ Tenofovir alafenamide	No dose adjustment of Tenofovir Alafenamide tablets or sofosbuvir/Velpatasvir is required.

<p>Sofosbuvir/velpatasvir/ voxilaprevir (400 mg/100 mg/ 100 mg + 100 mgⁱ orally, q.d.)</p> <p>Tenofovir alafenamide ^f (25 mg orally, q.d.)</p>	<p><i>Sofosbuvir</i></p> <p>↔ C_{max} 0.95 (0.86, 1.05) ↔ AUC 1.01 (0.97, 1.06)</p> <p><i>GS-331007^g</i></p> <p>↔ C_{max} 1.02 (0.98, 1.06)</p> <p>↔ AUC 1.04 (1.01, 1.06)</p> <p><i>Velpatasvir</i></p> <p>↔ C_{max} 1.05 (0.96, 1.16)</p> <p>↔ AUC 1.01 (0.94, 1.07)</p> <p>↔ C_{min} 1.01 (0.95, 1.09)</p> <p><i>Voxilaprevir</i></p> <p>↔ C_{max} 0.96 (0.84, 1.11)</p> <p>↔ AUC 0.94 (0.84, 1.05)</p> <p>↔ C_{min} 1.02 (0.92, 1.12)</p> <p><i>Tenofovir alafenamide</i></p> <p>↑ C_{max} 1.32 (1.17, 1.48)</p> <p>↑ AUC 1.52 (1.43, 1.61)</p>	<p>No dose adjustment of Tenofovir</p> <p>Alafenamide tablets or sofosbuvir/velpatasvir/ voxilaprevir is required.</p>
HIV ANTIRETROVIRAL AGENTS – PROTEASE INHIBITORS		
<p>Atazanavir/cobicistat (300 mg/150 mg orally, q.d.)</p> <p>Tenofovir alafenamide^C (10 mg orally, q.d.)</p>	<p><i>Tenofovir alafenamide</i></p> <p>↑ C_{max} 1.80 (1.48, 2.18)</p> <p>↑ AUC 1.75 (1.55, 1.98)</p> <p><i>Tenofovir</i></p> <p>↑ C_{max} 3.16 (3.00, 3.33)</p> <p>↑ AUC 3.47 (3.29, 3.67)</p>	<p>Co-administration is not recommended.</p>

	<p>↑ C_{min} 3.73 (3.54, 3.93)</p> <p><i>Atazanavir</i></p> <p>↔ C_{max} 0.98 (0.94, 1.02)</p> <p>↔ AUC 1.06 (1.01, 1.11)</p> <p>↔ C_{min} 1.18 (1.06, 1.31)</p> <p><i>Cobicistat</i></p> <p>↔ C_{max} 0.96 (0.92, 1.00)</p> <p>↔ AUC 1.05 (1.00, 1.09)</p> <p>↑ C_{min} 1.35 (1.21, 1.51)</p>	
<p>Atazanavir/ritonavir (300 mg/100 mg orally, q.d.)</p> <p>Tenofovir alafenamide^C (10 mg orally, s.d.)</p>	<p><i>Tenofovir alafenamide</i></p> <p>↑ C_{max} 1.77 (1.28, 2.44)</p> <p>↑ AUC 1.91 (1.55, 2.35)</p> <p><i>Tenofovir</i></p> <p>↑ C_{max} 2.12 (1.86, 2.43)</p> <p>↑ AUC 2.62 (2.14, 3.20)</p> <p><i>Atazanavir</i></p> <p>↔ C_{max} 0.98 (0.89, 1.07)</p> <p>↔ AUC 0.99 (0.96, 1.01)</p> <p>↔ C_{min} 1.00 (0.96, 1.04)</p>	Co-administration is not recommended.
<p>Darunavir/cobicistat (800 mg/150 mg orally, q.d.)</p> <p>Tenofovir alafenamide^c (25 mg orally, q.d.)</p>	<p><i>Tenofovir alafenamide</i></p> <p>↔ C_{max} 0.93 (0.72, 1.21)</p> <p>↔ AUC 0.98 (0.80, 1.19)</p> <p><i>Tenofovir</i></p> <p>↑ C_{max} 3.16 (3.00, 3.33)</p> <p>↑ AUC 3.24 (3.02, 3.47)</p> <p>↑ C_{min} 3.21 (2.90, 3.54)</p> <p><i>Darunavir</i></p> <p>↔ C_{max} 1.02 (0.96, 1.09)</p>	Co-administration is not recommended.

	<p>↔ <i>AUC</i> 0.99 (0.92, 1.07)</p> <p>↔ <i>Cmin</i> 0.97 (0.82, 1.15)</p> <p><i>Cobicistat</i></p> <p>↔ <i>Cmax</i> 1.06 (1.00, 1.12)</p> <p>↔ <i>AUC</i> 1.09 (1.03, 1.15)</p> <p>↔ <i>Cmin</i> 1.11 (0.98, 1.25)</p>	
<p>Darunavir/ritonavir (800 mg/100 mg orally, q.d.)</p> <p>Tenofovir alafenamide^c (10 mg orally, s.d.)</p>	<p><i>Tenofovir alafenamide</i></p> <p>↑ <i>Cmax</i> 1.42 (0.96, 2.09)</p> <p>↔ <i>AUC</i> 1.06 (0.84, 1.35)</p> <p><i>Tenofovir</i></p> <p>↑ <i>Cmax</i> 2.42 (1.98, 2.95)</p> <p>↑ <i>AUC</i> 2.05 (1.54, 2.72)</p> <p><i>Darunavir</i></p> <p>↔ <i>Cmax</i> 0.99 (0.91, 1.08)</p> <p>↔ <i>AUC</i> 1.01 (0.96, 1.06)</p> <p>↔ <i>Cmin</i> 1.13 (0.95, 1.34)</p>	Co-administration is not recommended.
<p>Lopinavir/ritonavir (800 mg/200 mg orally, q.d.)</p> <p>Tenofovir alafenamide^c (10 mg orally, s.d.)</p>	<p><i>Tenofovir alafenamide</i></p> <p>↑ <i>Cmax</i> 2.19 (1.72, 2.79)</p> <p>↑ <i>AUC</i> 1.47 (1.17, 1.85)</p> <p><i>Tenofovir</i></p> <p>↑ <i>Cmax</i> 3.75 (3.19, 4.39)</p> <p>↑ <i>AUC</i> 4.16 (3.50, 4.96)</p> <p><i>Lopinavir</i></p> <p>↔ <i>Cmax</i> 1.00 (0.95, 1.06)</p> <p>↔ <i>AUC</i> 1.00 (0.92, 1.09)</p> <p>↔ <i>Cmin</i> 0.98 (0.85, 1.12)</p>	Co-administration is not recommended.
Tipranavir/ritonavir	<p><i>Interaction not studied.</i></p> <p><i>Expected:</i></p> <p>↓ <i>Tenofovir alafenamide</i></p>	Co-administration is not recommended.

HIV ANTIRETROVIRAL AGENTS – INTEGRASE INHIBITORS		
Dolutegravir (50 mg orally, q.d.) Tenofovir alafenamide ^C (10 mg orally, s.d.)	<p><i>Tenofovir alafenamide</i> ↑ C_{max} 1.24 (0.88, 1.74) ↑ AUC 1.19 (0.96, 1.48)</p> <p><i>Tenofovir</i> ↔ C_{max} 1.10 (0.96, 1.25) ↑ AUC 1.25 (1.06, 1.47)</p> <p><i>Dolutegravir</i> ↔ C_{max} 1.15 (1.04, 1.27) ↔ AUC 1.02 (0.97, 1.08) ↔ C_{min} 1.05 (0.97, 1.13)</p>	No dose adjustment of Tenofovir Alafenamide tablets or dolutegravir is required.
Raltegravir	Interaction not studied. <i>Expected:</i> ↔ Tenofovir alafenamide ↔ Raltegravir	No dose adjustment of Tenofovir Alafenamide tablets or raltegravir is required.
HIV ANTIRETROVIRAL AGENTS – NON-NUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITORS		
Efavirenz (600 mg orally, q.d.) Tenofovir alafenamide ^h (40 mg orally, q.d.)	<p><i>Tenofovir alafenamide</i> ↓ C_{max} 0.78 (0.58, 1.05) ↔ AUC 0.86 (0.72, 1.02)</p> <p><i>Tenofovir</i> ↓ C_{max} 0.75 (0.67, 0.86) ↔ AUC 0.80 (0.73, 0.87) ↔ C_{min} 0.82 (0.75, 0.89)</p> <p><i>Expected:</i> ↔ Efavirenz</p>	No dose adjustment of Tenofovir Alafenamide tablets or efavirenz is required.
Nevirapine	Interaction not studied. <i>Expected:</i> ↔ Tenofovir alafenamide ↔ Nevirapine	No dose adjustment of Tenofovir Alafenamide tablets or nevirapine is required.

<p>Rilpivirine (25 mg orally, q.d.)</p> <p>Tenofovir alafenamide (25 mg orally, q.d.)</p>	<p><i>Tenofovir alafenamide</i> ↔ C_{max} 1.01 (0.84, 1.22) ↔ AUC 1.01 (0.94, 1.09)</p> <p><i>Tenofovir</i> ↔ C_{max} 1.13 (1.02, 1.23) ↔ AUC 1.11 (1.07, 1.14) ↔ C_{min} 0.82 (0.75, 0.89)</p> <p><i>Rilpivirine</i> ↓ C_{max} 0.93 (0.87, 0.99) ↔ AUC 1.01 (0.96, 1.06) ↔ C_{min} 1.13 (1.04, 1.23)</p>	<p>No dose adjustment of Tenofovir Alafenamide tablets or rilpivirine is required.</p>
<p>HIV ANTIRETROVIRAL AGENTS – CCR5 RECEPTOR ANTAGONIST</p>		
<p>Maraviroc</p>	<p>Interaction not studied. <i>Expected:</i> ↔ Tenofovir alafenamide ↔ Maraviroc</p>	<p>No dose adjustment of Tenofovir Alafenamide tablets or maraviroc is required.</p>
<p>HERBAL SUPPLEMENTS</p>		
<p>St. John's wort (<i>Hypericum perforatum</i>)</p>	<p>Interaction not studied. <i>Expected:</i> ↓ Tenofovir alafenamide</p>	<p>Co-administration is not recommended.</p>
<p>ORAL CONTRACEPTIVES</p>		
<p>Norgestimate (0.180 mg/0.215 mg/ 0.250 mg orally, q.d.)</p> <p>Ethinylestradiol (0.025 mg orally, q.d.)</p>	<p><i>Norelgestromin</i> ↔ C_{max} 1.17 (1.07, 1.26) ↔ AUC 1.12 (1.07, 1.17) ↔ C_{min} 1.16 (1.08, 1.24)</p>	<p>No dose adjustment of Tenofovir Alafenamide tablets or norgestimate/ ethinyl estradiol is required.</p>

Tenofovir alafenamide ^c (25 mg orally, q.d.)	<i>Norgestrel</i>	
	↔C _{max} 1.10 (1.02, 1.18)	
	↔AUC 1.09 (1.01, 1.18)	
	↔C _{min} 1.11 (1.03, 1.20)	
	<i>Ethinylestradiol</i>	
	↔C _{max} 1.22 (1.15, 1.29)	
	↔AUC 1.11 (1.07, 1.16)	
	↔C _{min} 1.02 (0.93, 1.12)	

a All interaction studies are conducted in healthy volunteers.

b All No Effect Boundaries are 70%-143%.

c Study conducted with emtricitabine/tenofovir alafenamide fixed-dose combination tablet. d A sensitive CYP3A4 substrate.

e Study conducted with elvitegravir/cobicistat/emtricitabine/tenofovir alafenamide fixed-dose combination tablet.

f Study conducted with emtricitabine/rilpivirine/tenofovir alafenamide fixed-dose combination tablet.

g The predominant circulating nucleoside metabolite of sofosbuvir.

h Study conducted with tenofovir alafenamide 40 mg and emtricitabine 200 mg.

i Study conducted with additional voxilaprevir 100 mg to achieve voxilaprevir exposures expected in HCV infected patients.

4.6. Fertility, pregnancy and lactation

Pregnancy

There are no or limited amount of data (less than 300 pregnancy outcomes) from the use of tenofovir alafenamide in pregnant women. However, a large amount of data on pregnant women (more than 1,000 exposed outcomes) indicate no malformative nor fetoneonatal toxicity associated with the use of tenofovir disoproxil fumarate.

Animal studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity (see section 5.3).

The use of Tenofovir Alafenamide tablets may be considered during pregnancy, if necessary.

Breast-feeding

It is not known whether tenofovir alafenamide is secreted in human milk. However, in animal studies it has been shown that tenofovir is secreted into milk. There is insufficient information on the effects of tenofovir in newborns/infants.

A risk to the breast-fed newborns/infants cannot be excluded; therefore, Tenofovir Alafenamide tablets should not be used during breast-feeding.

Fertility

No human data on the effect of Tenofovir Alafenamide tablets on fertility are available. Animal studies do not indicate harmful effects of tenofovir alafenamide on fertility.

4.7. Effects on ability to drive and use machines

Tenofovir Alafenamide tablets has no or negligible influence on the ability to drive and use machines. Patients should be informed that dizziness has been reported during treatment with Tenofovir Alafenamide tablets.

4.8. Undesirable effects

Summary of the safety profile

Assessment of adverse reactions is based on pooled safety data from 2 controlled Phase 3 studies in which 866 HBV infected patients received tenofovir alafenamide 25 mg once daily in a double-blind fashion through Week 96 (median duration of blinded study drug exposure of 104 weeks) and from post-marketing experience. The most frequently reported adverse reactions were headache (12%), nausea (6%), and fatigue (6%). After Week 96, patients either remained on their original blinded treatment or received open-label Tenofovir Alafenamide tablets. No additional adverse reactions to Tenofovir Alafenamide tablets were identified from Week 96 through Week 120 in the double-blind phase and in the subset of subjects receiving open-label Tenofovir Alafenamide tablets treatment (see section 5.1).

Tabulated summary of adverse reactions

The following adverse drug reactions have been identified with tenofovir alafenamide in patients with chronic hepatitis B (Table 2). The adverse reactions are listed below by body system organ class and frequency based on the Week 96 analysis. Frequencies are defined as follows: very common ($\geq 1/10$), common ($\geq 1/100$ to $< 1/10$) or uncommon ($\geq 1/1,000$ to $< 1/100$).

Table 2: Adverse drug reactions identified with tenofovir Alafenamide

System organ class	
Frequenc y	Adverse reaction
<i>Nervous system disorders</i>	
Very common	Headache
Common	Dizziness
<i>Gastrointestinal disorders</i>	
Common	Diarrhoea, vomiting, nausea, abdominal pain, abdominal distension, flatulence
<i>Hepatobiliary disorders</i>	
Common	Increased ALT
<i>Skin and subcutaneous tissue disorders</i>	
Common	Rash, pruritus
Uncommo n	

1 Adverse reaction identified through post-marketing surveillance for tenofovir alafenamide-containing products.

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:

4.9. Overdose

If overdose occurs the patient must be monitored for evidence of toxicity (see section 4.8).

Treatment of overdose with Tenofovir Alafenamide tablets consists of general supportive measures including monitoring of vital signs as well as observation of the clinical status of the patient.

Tenofovir is efficiently removed by haemodialysis with an extraction coefficient of approximately 54%. It is not known whether tenofovir can be removed by peritoneal dialysis.

5. PHARMACOLOGICAL PROPERTIES

5.1. Pharmacodynamic properties

Pharmacotherapeutic group: Antiviral for systemic use, nucleoside and nucleotide reverse transcriptase inhibitors; ATC code: J05AF13.

Mechanism of action

Tenofovir alafenamide is a phosphonamidate prodrug of tenofovir (2'-deoxyadenosine monophosphate analogue). Tenofovir alafenamide enters primary hepatocytes by passive diffusion and by the hepatic uptake transporters OATP1B1 and OATP1B3. Tenofovir alafenamide is primarily hydrolysed to form tenofovir by carboxylesterase 1 in primary hepatocytes. Intracellular tenofovir is subsequently phosphorylated to the pharmacologically active metabolite tenofovir diphosphate. Tenofovir diphosphate inhibits HBV replication through incorporation into viral DNA by the HBV reverse transcriptase, which results in DNA chain termination.

Tenofovir has activity that is specific to hepatitis B virus and human immunodeficiency virus (HIV-1 and HIV-2). Tenofovir diphosphate is a weak inhibitor of mammalian DNA polymerases that include mitochondrial DNA polymerase γ and there is no evidence of mitochondrial toxicity *in vitro* based on several assays including mitochondrial DNA analyses.

Antiviral activity

The antiviral activity of tenofovir alafenamide was assessed in HepG2 cells against a panel of HBV clinical isolates representing genotypes A-H. The EC₅₀ (50% effective concentration) values for tenofovir alafenamide ranged from 34.7 to 134.4 nM, with an overall mean EC₅₀ of 86.6 nM. The CC₅₀ (50% cytotoxicity concentration) in HepG2 cells was > 44,400 nM.

Resistance

In a pooled analysis of patients receiving tenofovir Alafenamide tablets, sequence analysis was performed on paired baseline and on-treatment HBV isolates for patients who either experienced virologic breakthrough (2 consecutive visits with HBV DNA \geq 69 IU/mL after having been < 69 IU/mL, or 1.0 log₁₀ or greater increase in HBV DNA from nadir) or patients with HBV DNA \geq 69 IU/mL at Week 96 or at early discontinuation at

or after Week 24. In analyses at Week 48 (N = 20) and Week 96 (N = 72), no amino acid substitutions associated with resistance to tenofovir Alafenamide tablets were identified in these isolates (genotypic and phenotypic analyses).

Cross-resistance

The antiviral activity of tenofovir alafenamide was evaluated against a panel of isolates containing nucleos(t)ide reverse transcriptase inhibitor mutations in HepG2 cells. HBV isolates expressing the rtV173L, rL180M, and rtM204V/I substitutions associated with resistance to lamivudine remained susceptible to tenofovir alafenamide (< 2-fold change in EC₅₀). HBV isolates expressing the rL180M, rtM204V plus rtT184G, rtS202G, or rtM250V substitutions associated with resistance to entecavir remained susceptible to tenofovir alafenamide. HBV isolates expressing the rtA181T, rtA181V, or rtN236T single substitutions associated with resistance to adefovir remained susceptible to tenofovir alafenamide; however, the HBV isolate expressing rtA181V plus rtN236T exhibited reduced susceptibility to tenofovir alafenamide (3.7-fold change in EC₅₀). The clinical relevance of these substitutions is not known.

Clinical data

The efficacy and safety of tenofovir Alafenamide tablets in patients with chronic hepatitis B are based on 48- and 96-week data from two randomised, double-blind, active-controlled studies, GS-US-320-0108 (“*Study 108*”) and GS-US-320-0110 (“*Study 110*”). The safety of tenofovir Alafenamide tablets is also supported by pooled data from patients in *Studies 108* and *110* who remained on blinded treatment from Week 96 through Week 120 and additionally from patients in the open-label phase of *Studies 108* and *110* from Week 96 through Week 120 (N = 361 remained on tenofovir Alafenamide tablets; N = 180 switched from tenofovir disoproxil fumarate to tenofovir Alafenamide tablets at Week 96).

In *Study 108*, HBeAg-negative treatment-naïve and treatment-experienced patients with compensated liver function were randomised in a 2:1 ratio to receive tenofovir Alafenamide tablets (25 mg; N = 285) once daily or tenofovir disoproxil fumarate (300 mg; N = 140) once daily. The mean age was 46 years, 61% were male, 72% were Asian, 25% were White and 2% (8 subjects) were Black. 24%, 38%, and 31% had HBV genotype B, C, and D, respectively. 21% were treatment-experienced (previous treatment with oral antivirals, including entecavir (N = 41), lamivudine (N = 42), tenofovir disoproxil fumarate (N = 21), or other (N = 18)). At baseline, mean plasma HBV DNA was 5.8 log₁₀ IU/mL, mean serum ALT was 94 U/L, and 9% of patients had a history of cirrhosis.

In *Study 110*, HBeAg-positive treatment-naïve and treatment-experienced patients with compensated liver function were randomised in a 2:1 ratio to receive tenofovir Alafenamide tablets (25 mg; N = 581) once daily or tenofovir disoproxil fumarate (300 mg; N = 292) once daily. The mean age was 38 years, 64% were male, 82% were Asian, 17% were White and < 1% (5 subjects) were Black. 17%, 52%, and 23% had HBV genotype B, C, and D, respectively. 26% were treatment-experienced (previous treatment

with oral antivirals, including adefovir (N = 42), entecavir (N = 117), lamivudine (N = 84), telbivudine (N = 25), tenofovir disoproxil fumarate (N = 70), or other (N = 17)). At baseline, mean plasma HBV DNA was 7.6 log₁₀ IU/mL, mean serum ALT was 120 U/L, and 7% of patients had a history of cirrhosis.

The primary efficacy endpoint in both studies was the proportion of patients with plasma HBV DNA levels below 29 IU/mL at Week 48. tenofovir Alafenamide tablets met the non-inferiority criteria in achieving HBV DNA less than 29 IU/mL when compared to tenofovir disoproxil fumarate. Treatment outcomes of *Study 108* and *Study 110* through Week 48 are presented in Table 3 and Table 4.

Table 3: HBV DNA efficacy parameters at Week 48^a

	Study 108 (HBeAg-Negative)		Study 110 (HBeAg-Positive)	
	Tenofovir Alafenamide tablets (N = 285)	TDF (N = 140)	Tenofovir Alafenamide tablets (N = 581)	TDF (N = 292)
HBV DNA < 29 IU/mL	94%	93%	64%	67%
Treatment difference ^b	1.8% (95% CI = -3.6% to 7.2%)		-3.6% (95% CI = -9.8% to 2.6%)	
HBV DNA ≥ 29 IU/mL	2%	3%	31%	30%
Baseline HBV DNA				
< 7 log ₁₀ IU/mL	96% (221/230)	92% (107/116)	N/A	N/A
≥ 7 log ₁₀ IU/mL	85% (47/55)	96% (23/24)		
Baseline HBV DNA				
< 8 log ₁₀ IU/mL	N/A	N/A	82% (254/309)	82% (123/150)
≥ 8 log ₁₀ IU/mL			43% (117/272)	51% (72/142)
Nucleoside naïve ^c	94% (212/225)	93% (102/110)	68% (302/444)	70% (156/223)
Nucleoside experienced	93% (56/60)	93% (28/30)	50% (69/137)	57% (39/69)
No Virologic data at Week 48	4%	4%	5%	3%
Discontinued study drug due to lack of efficacy	0	0	< 1%	0
Discontinued study drug due to AE or death	1%	1%	1%	1%

Discontinued study drug due to other reasons ^d	2%	3%	3%	2%
Missing data during window but on study drug	< 1%	1%	< 1%	0

N/A = not applicable

TDF = tenofovir disoproxil

fumarate a Missing = failure

analysis.

b Adjusted by baseline plasma HBV DNA categories and oral antiviral treatment status strata.

c Treatment-naïve subjects received < 12 weeks of oral antiviral treatment with any nucleoside or nucleotide analogue including tenofovir disoproxil fumarate or tenofovir alafenamide.

d Includes patients who discontinued for reasons other than an adverse event (AE), death or lack or loss of efficacy, e.g. withdrew consent, loss to follow-up, etc.

Table 4: Additional efficacy parameters at Week 48^a

	Study 108 (HBeAg-Negative)		Study 110 (HBeAg-Positive)	
	Tenofovir alafenamide tablets (N = 285)	TDF (N = 140)	Tenofovir alafenamide tablets (N = 581)	TDF (N = 292)
ALT Normalised ALT (Central lab) ^b	83 %	75%	72%	67%
Normalised ALT (AASLD) ^c	50 %	32%	45%	36%
Serology HBeAg loss / seroconversion ^d	N/A	N/A	14% / 10%	12% / 8%
HBsAg loss / seroconversion	0 / 0	0 / 0	1% / 1%	< 1% / 0

N/A = not applicable

TDF = tenofovir disoproxil fumarate

a Missing = failure analysis.

b The population used for analysis of ALT normalisation included only patients with ALT above upper limit of normal (ULN) of the central laboratory range at baseline. Central laboratory ULN for ALT are as follows: ≤ 43 U/L for males aged 18 to < 69 years and ≤ 35 U/L for males ≥ 69 years; ≤ 34 U/L for females 18 to < 69 years and ≤ 32 U/L for females ≥ 69 years.

c The population used for analysis of ALT normalisation included only patients with ALT above ULN of the American Association of the Study of Liver Diseases (AASLD) criteria (> 30 U/L males and > 19 U/L females) at baseline.

d The population used for serology analysis included only patients with antigen (HBeAg) positive and antibody (HBeAb) negative or missing at baseline.

Experience beyond 48 weeks in Study 108 and Study 110

At Week 96, viral suppression as well as biochemical and serological responses were maintained with continued tenofovir alafenamide treatment (see Table 5).

Table 5: HBV DNA and additional efficacy parameters at Week 96^a

	Study 108 (HBeAg-Negative)		Study 110 (HBeAg-Positive)	
	Tenofovir alafenamide tablets (N = 285)	TDF (N = 140)	Tenofovir alafenamide tablets (N = 581)	TDF (N = 292)
HBV DNA < 29 IU/mL	90%	91%	73%	75%
Baseline HBV DNA < 7 log ₁₀ IU/mL ≥ 7 log ₁₀ IU/mL	90% (207/230) 91% (50/55)	91% (105/116) 92% (22/24)	N/A	N/A

Baseline HBV DNA < 8 log ₁₀ IU/mL ≥ 8 log ₁₀ IU/mL	N/A	N/A	84% (260/309) 60% (163/272)	81% (121/150) 68% (97/142)
Nucleoside-naïve ^b	90% (203/225)	92% (101/110)	75% (331/444)	75% (168/223)
Nucleoside-experienced	90% (54/60)	87% (26/30)	67% (92/137)	72% (50/69)
ALT				
Normalised ALT (Central lab) ^c	81%	71%	75%	68%
Normalised ALT (AASLD) ^d	50%	40%	52%	42%
Serology HBeAg loss / seroconversion ^e	N/A	N/A	22% / 18%	18% / 12%

HBsAg loss / seroconversion	< 1% / < 1%	0 / 0	1% / 1%	1% / 0
-----------------------------	-------------	-------	---------	--------

N/A = not applicable

TDF = tenofovir disoproxil fumarate

a Missing = failure analysis

b Treatment-naïve subjects received < 12 weeks of oral antiviral treatment with any nucleoside or nucleotide analogue including tenofovir disoproxil fumarate or tenofovir alafenamide.

c The population used for analysis of ALT normalisation included only patients with ALT above ULN of the central laboratory range at baseline. Central laboratory ULN for ALT are as follows: ≤ 43 U/L for males aged 18 to < 69 years and ≤ 35 U/L for males ≥ 69 years; ≤ 34 U/L for females 18 to < 69 years and ≤ 32 U/L for females ≥ 69 years.

d The population used for analysis of ALT normalisation included only patients with ALT above ULN of the AASLD criteria (> 30 U/L males and > 19 U/L females) at baseline.

e The population used for serology analysis included only patients with antigen (HBeAg) positive and antibody (HBeAb) negative or missing at baseline.

Changes in measures of bone mineral density

In both studies tenofovir alafenamide was associated with smaller mean percentage decreases in bone mineral density (BMD; as measured by hip and lumbar spine dual energy X ray absorptiometry [DXA] analysis) compared to tenofovir disoproxil fumarate after 96 weeks of treatment.

In patients who remained on blinded treatment beyond Week 96, mean percentage change in BMD in each group at Week 120 was similar to that at Week 96. In the open-label phase of both studies, mean percentage change in BMD from Week 96 to Week 120 in patients who remained on tenofovir Alafenamide tablets was +0.6% at the lumbar spine and 0% at the total hip, compared to +1.7% at the lumbar spine and +0.6% at the total hip in those who switched from tenofovir disoproxil fumarate to tenofovir Alafenamide tablets at Week 96.

Changes in measures of renal function

In both studies tenofovir alafenamide was associated with smaller changes in renal safety parameters (smaller median reductions in estimated CrCl by Cockcroft-Gault and smaller median percentage increases in urine retinol binding protein to creatinine ratio and urine beta-2-microglobulin to creatinine ratio) compared to tenofovir disoproxil fumarate after 96 weeks of treatment (see also section 4.4).

In patients who remained on blinded treatment beyond Week 96 in *Studies 108* and *110*, changes from baseline in renal laboratory parameter values in each group at Week 120 were similar to those at Week 96. In the open-label phase of *Studies 108* and *110*, the mean (±SD) change in serum creatinine from Week 96 to Week 120 was

-0.002 (0.10) mg/dL in those who remained on tenofovir Alafenamide tablets, compared to -0.008 (0.09) mg/dL in those who switched from tenofovir disoproxil fumarate to tenofovir Alafenamide tablets at Week 96. In the open-label phase, the

median change in eGFR from Week 96 to Week 120 was -0.6 mL/min in patients who remained on tenofovir Alafenamide tablets, compared to +1.8 mL/min in patients who switched from tenofovir disoproxil fumarate to tenofovir Alafenamide tablets at Week 96.

Paediatric population

The European Medicines Agency has deferred the obligation to submit the results of studies with tenofovir Alafenamide tablets in one or more subsets of the paediatric population in the treatment of chronic hepatitis B (see sections 4.2 and 5.2 for information on paediatric use).

5.2. Pharmacokinetic properties

Absorption

Following oral administration of tenofovir Alafenamide tablets under fasted conditions in adult patients with chronic hepatitis B, peak plasma concentrations of tenofovir alafenamide were observed approximately 0.48 hours post-dose. Based on Phase 3 population pharmacokinetic analysis in subjects with chronic hepatitis B, mean steady state AUC_{0-24} for tenofovir alafenamide (N = 698) and tenofovir (N = 856) were 0.22 $\mu\text{g}\cdot\text{h}/\text{mL}$ and 0.32 $\mu\text{g}\cdot\text{h}/\text{mL}$, respectively. Steady state C_{max} for tenofovir alafenamide and tenofovir were 0.18 and 0.02 $\mu\text{g}/\text{mL}$, respectively. Relative to fasting conditions, the administration of a single dose of tenofovir Alafenamide tablets with a high fat meal resulted in a 65% increase in tenofovir alafenamide exposure.

Distribution

The binding of tenofovir alafenamide to human plasma proteins in samples collected during clinical studies was approximately 80%. The binding of tenofovir to human plasma proteins is less than 0.7% and is independent of concentration over the range of 0.01-25 $\mu\text{g}/\text{mL}$.

Biotransformation

Metabolism is a major elimination pathway for tenofovir alafenamide in humans, accounting for > 80% of an oral dose. *In vitro* studies have shown that tenofovir alafenamide is metabolised to tenofovir (major metabolite) by carboxylesterase-1 in hepatocytes; and by cathepsin A in peripheral blood mononuclear cells (PBMCs) and macrophages. *In vivo*, tenofovir alafenamide is hydrolysed within cells to form tenofovir (major metabolite), which is phosphorylated to the active metabolite, tenofovir diphosphate.

In vitro, tenofovir alafenamide is not metabolised by CYP1A2, CYP2C8, CYP2C9, CYP2C19, or CYP2D6. Tenofovir alafenamide is minimally metabolised by CYP3A4.

Elimination

Renal excretion of intact tenofovir alafenamide is a minor pathway with < 1% of the dose eliminated in urine. Tenofovir alafenamide is mainly eliminated following metabolism to tenofovir. Tenofovir alafenamide and tenofovir have a median plasma half-life of 0.51 and 32.37 hours, respectively. Tenofovir is renally eliminated from

the body by the kidneys by both glomerular filtration and active tubular secretion. Linearity/non-linearity

Tenofovir alafenamide exposures are dose proportional over the dose range of 8 to 125 mg.

Pharmacokinetics in special populations

Age, gender and ethnicity

No clinically relevant differences in pharmacokinetics according to age or ethnicity have been identified. Differences in pharmacokinetics according to gender were not considered to be clinically relevant.

Hepatic impairment

In patients with severe hepatic impairment, total plasma concentrations of tenofovir alafenamide and tenofovir are lower than those seen in subjects with normal hepatic function. When corrected for protein binding, unbound (free) plasma concentrations of tenofovir alafenamide in severe hepatic impairment and normal hepatic function are similar.

Renal impairment

No clinically relevant differences in tenofovir alafenamide or tenofovir pharmacokinetics were observed between healthy subjects and patients with severe renal impairment (estimated CrCl > 15 but < 30 mL/min) in studies of tenofovir alafenamide.

Paediatric population

The pharmacokinetics of tenofovir alafenamide and tenofovir were evaluated in HIV-1 infected, treatment-naïve adolescents who received tenofovir alafenamide (10 mg) given with elvitegravir, cobicistat and emtricitabine as a fixed-dose combination tablet (E/C/F/TAF; Genvoya). No clinically relevant differences in tenofovir alafenamide or tenofovir pharmacokinetics were observed between adolescent and adult HIV-1 infected subjects.

5.3. Preclinical safety data

Non-clinical studies in rats and dogs revealed bone and kidney as the primary target organs of toxicity. Bone toxicity was observed as reduced BMD in rats and dogs at tenofovir exposures at least four times greater than those expected after administration of tenofovir alafenamide. A minimal infiltration of histiocytes was present in the eye in dogs at tenofovir alafenamide and tenofovir exposures of approximately 4 and 17 times greater, respectively, than those expected after administration of tenofovir alafenamide.

Tenofovir alafenamide was not mutagenic or clastogenic in conventional genotoxic assays.

Because there is a lower tenofovir exposure in rats and mice after tenofovir alafenamide administration compared to tenofovir disoproxil fumarate,

carcinogenicity studies and a rat peri-postnatal study were conducted only with tenofovir disoproxil fumarate. No special hazard for humans was revealed in conventional studies of carcinogenic potential with tenofovir disoproxil (as fumarate) and toxicity to reproduction and development with tenofovir disoproxil (as fumarate) or tenofovir alafenamide. Reproductive toxicity studies in rats and rabbits showed no effects on mating, fertility, pregnancy or foetal parameters. However, tenofovir disoproxil fumarate reduced the viability index and weight of pups in a peri- postnatal toxicity study at maternally toxic doses. A long-term oral carcinogenicity study in mice showed a low incidence of duodenal tumours, considered likely related to high local concentrations in the gastrointestinal tract at the high dose of 600 mg/kg/day. The mechanism of tumour formation in mice and potential relevance for humans is uncertain.

6. PHARMACEUTICAL PARTICULARS

1. List of excipients

Tablet core

Microcrystalline cellulose, Lactose monohydrate, Croscarmellose sodium and magnesium stearate.

Film-coating

Polyvinyl alcohol, Talc, Macrogol/ Polyethylene Glycol and Titanium dioxide.

2. Incompatibilities

Not applicable.

3. Shelf life

24 months

4. Special precautions for storage

Do not store above 30°C. Store in the original package. Keep the bottle tightly closed.

5. Nature and contents of container

30's Count: White opaque 60 cc HDPE bottles closed with 33 mm - 400 ARGUS CR Closure with TEKNIPLEX HS 123 induction sealing wad filled with 1g silica gel canister and 9 gm/yard polyester.

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. SUPPLIER

Supplier:

Laurus Labs Limited
2nd Floor, Serene Chambers, Road No.-7
Banjara Hills, Hyderabad – 500034.
India.

Manufacturer:

Laurus Labs Limited, (Unit-2),
Plot No:19, 20 & 21, Western Sector,
APSEZ, Atchutapuram Mandal,
Visakhapatnam-District-531011,
Andhra Pradesh, India.

7. REGISTRATION NUMBER

TAN 22 HM 0257

8. DATE OF REGISTRATION

19th July, 2022

9. DATE OF REVISION OF THE TEXT