Summary of Product Characteristics

1. NAME OF THE MEDICINAL PRODUCT (FPP)

DAFRACLAV® 1000

Amoxicillin -Clavulanic acid

- 1.1. Strength 875 mg + 125 mg
- 1.2. Pharmaceutical form Film coated tablet

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each film coated tablet contains 875 mg amoxicillin (as amoxicillin trihydrate) and 125 mg of clavulanic acid (as potassium clavulanate).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film coated tablet

White to off-white, oblong, one side scored, one site engraved "KF".

4. CLINICAL PARTICULARS

4.1. Therapeutic indications

Dafraclav is indicated for the treatment of the following infections in adults and children (see sections 4.2,4.4 and 5.1):

- Acute bacterial sinusitis (adequately diagnosed)
- Acute otitis media
- Acute exacerbations of chronic bronchitis (adequately diagnosed)
- Community acquired pneumonia
- Cystitis
- Pyelonephritis
- Skin and soft tissue infections, in particular cellulitis, animal bites, severe dental abscess with spreading cellulitis.

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Bone and joint infections, in particular osteomyelitis.

Consideration should be given to official guidance on the appropriate use of antibacterial agents.

4.2. Posology and mode of administration

4.2.1. Posology

Doses are expressed throughout in terms of amoxicillin/clavulanic acid except when doses are stated in terms of individual component.

The dose of Dafraclav that is selected to treat an individual infection should take into account:

- The expected pathogens and their likely susceptibility to antibacterial agents (see section 4.4)
- The severity and the site of infection
- The age, weight and renal function of the patient as shown below.

For adults and children \geq 40 kg, this formulation of Dafraclav 1000 film coated tablet provides a total daily dose of 1750 mg amoxicillin /250 mg clavulanic acid with twice daily dosing and 2625 mg amoxicillin/375 mg clavulanic acid with three times daily dosing, when administered as recommended below.

The duration of therapy should be determine by the response of the patient. Some infections (e.g. osteomyelitis) require longer periods of treatment. Treatment should not be extended beyond 14 days without review (see section 4.4 and 5.1 regarding prolonged therapy).

Adults and children \geq 12 ans (\geq 40 kg)

Recommended doses:

- Standard dose: (for all indications) 875 mg/125mg twice daily.
- Higher dose: (particularly for infections such as otitis media, sinusitis and lower respiratory tract infections): 875mg/125mg, three times a day.

4.2.2. Special populations

Elderly

No dose adjustment is considered necessary

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Hepatic impairment

Dose with caution and monitor hepatic function at regular intervals .

Renal impairment

- No dose adjustment is required in patients with creatinine clearance (CrCl) greater than 30 ml/min.
- In patients with a creatinine clearance less than 30ml/min, the use of an amoxicillin/clavulanic acid formulation with a ratio of 7:1 is not recommended.
 Use of Dafraclav 625 (500mg/125mg) can be recommended
 - Adults and children with body weight of 40 kg or more Dafraclav is also available in tablets of 500 mg/125 mg
 - o In patient with creatinine clearance 10-30 ml/min: 500mg/125mg twice daily.
 - o In patients with creatinine clearance < 10 ml/min : 500 mg/125mg once daily.
 - Haemodialysis: 500mg/125mg every 24 hours, plus 500 mg/125mh during dialysis, to be repeated at the end of dialysis (as serum concentrations of both amoxicillin and clavulanic acid are decreased).

4.2.3. Paediatric population

Children with a body weight less than 40 kg

Children may be treated with amoxicillin/clavulanic acid tablets or suspension. Recommended doses:

- 25 mg-3.6mg/kg/day to 45 mg-6.4mg/kg/day given as two divided doses.
- Up to 70 mg-10mg/kg/day given as two divided doses may be considered for some infections (such as otitis media, sinusitis and lower respiratory tract infections)

Since the Dafraclav 1000 film coated tablets cannot be divided, children weighing below 25 kg should not receive their treatment by administering these tablets.

The table below shows the dose received (mg/kg body weight) by children weighing between 25 and 40 kg when administering a single dose of 1000 mg (875/125).

Poids (en kg)	40	35	30	25	Recommended single dose (mg/kg)
Amoxicillin [mg/kg] per single dose (1 film coated tablet 875/125)	21,9	25,0	29,2	35,0	12,5 – 22,5 (up to 35)

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Poids (en kg)	40	35	30	25	Recommended single dose (mg/kg)
Clavulanic acid [mg/kg] per single dose (1 film coated tablet 875/125)	3,1	3,6	4,2	5,0	1,8 – 3,2 (up to 5)

Children weighing less than 25 kg should, preferably, be treated with Dafraclav suspension.

No clinical data are available in children under 2 years of age for doses higher than 45 mg-6.4 mg/kg (ratio 7/1).

There are no clinical data available for children under 2 months of age. Dosing recommendations in this population therefore cannot be made.

4.2.4. Method of administration

- Dafraclav is for oral use only
- To minimise potential gastrointestinal intolerance Dafraclav should be administered during a meal.

4.3. Contraindications

- Hypersensitivity to the active substances, to any of the penicillins or to any of the excipients listed in section 6.1.
- History of a severe immediate hypersensitivity reaction (e.g. anaphylaxis) to another β-lactam agent (e.g. a cephalosporin, carbapenem or monobactam).
- History of jaundice or hepatic impairment due to amoxicillin/clavulanic acid.

4.4. Special warning and precautions for use

4.4.1. General information

Before initiating therapy with amoxicillin/clavulanic acid, careful enquiry should be made concerning previous hypersensitivity reactions to penicillins, cephalosporins or other β -lactam agents (see sections 4.3 and 4.8)

Serious and occasionally fatal hypersensitivity (anaphylactoid) reactions have been reported in patients on penicillin therapy. These reactions are more likely to occur in individuals with a history of penicillin hypersensitivity and in atopic individuals. If an allergic reaction occurs, amoxicillin/clavulanic acid therapy must be discontinued and appropriate alternative therapy instituted.

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In the case that an infection is proven to be due to an amoxicillin-susceptible organism(s) then switching from amoxicillin/clavulanic acid to amoxicillin should be considered in accordance with official guidance.

The use of Dafraclav is not suitable when there is a high risk that the presumptive pathogens have reduced susceptibility or resistance to β -lactam agents that is not mediated by β -lactamases susceptible to inhibition by clavulanic acid. Dafraclav should not be used to treat penicillin-resistant *S. pneumoniae*.

In patients with impaired renal function or in those receiving high doses convulsions may occur (see section 4.8)

Amoxicillin/clavulanic acid should be avoided if infectious mononucleosis is suspected since the occurrence of a morbilliform rash has been associated with this condition following the use of amoxicillin.

Concomitant use of allopurinol during treatment with amoxicillin can increase the likelihood of allergic skin reactions.

Prolonged use may occasionally result in overgrowth of non-susceptible organisms.

The occurrence at the treatment initiation of a feverish generalized erythema associated with pustula may be a symptom of acute generalized exanthemous pustulosis (AGEP). This reaction requires discontinuation of the treatment with Dafraclav and contraindicates any subsequent administration of amoxicillin.

In patients with evidence of hepatic impairment amoxicillin/clavulanic acid should be used with caution (see sections 4.2,4.3 and 4.8).

Hepatic events have been reported predominantly in males and elderly patients and may be associated with prolonged treatment. These events have been very rarely reported in children. In all populations, signs and symptoms usually occur during or shortly after treatment but in some cases may not become apparent until several weeks after treatment has ceased. These are usually reversible. Hepatic events may be severe and, in extremely rare circumstances deaths have been reported. These have almost always occurred in patients with serious underlying disease or taking concomitant medications known to have the potential for hepatic effects. (see section 4.8)

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Antibiotic-associated colitis has been reported with nearly all antibacterial agents including amoxicillin and may range in severity from mild to life threatening. Therefore, it is important to consider this diagnosis in patients who present with diarrhoea during or subsequent to the administration of any antibiotics. Should antibiotic-associated colitis occur, amoxicillin/clavulanic acid should immediately be discontinued, a physician be consulted and an appropriate therapy initiated. Anti-peristaltic medicinal products are contraindicated in this situation.

During prolonged therapy periodic assessment of organ system functions, including renal, hepatic and hematopoietic function is advisable.

Prolongation of prothrombin time has been reported rarely in patients receiving amoxicillin/clavulanic acid. Appropriate monitoring should be undertaken when anticoagulants are prescribed concomitantly. Adjustments in the dose of oral anticoagulants may be necessary to maintain the desired level of anticoagulation (see section 4.5 and 4.8).

In patients with renal impairment, the dose should be adjusted according to the degree of impairment (see section 4.2).

In patients with reduced urine output, crystalluria has been observed very rarely, predominantly with parenteral therapy. During the administration of high doses of amoxicillin, it is advisable to maintain adequate fluid intake and urinary output in order to reduce the possibility of amoxicillin crystalluria. In patients with bladder catheters, a regular check of patency should be maintained (see section 4.9).

During treatment with amoxicillin, enzymatic glucose oxidase methods should be used whenever testing for the presence of glucose in urine because false positive results may occur with non-enzymatic methods.

The presence of clavulanic acid in Dafraclav may cause a non-specific binding of IgG and albumin by red cell membranes leading to a false positive Coombs test.

There have been reports of positive test results using the Bio-Rad Laboratories Platelia Aspergillus EIA test in patients receiving amoxicillin/clavulanic acid who were subsequently found to be free of Aspergillus infection. Cross-reactions with non-Aspergillus polysaccharides and polyfuranoses with Bio-Rad Laboratories Platelia Aspergillus EIA test have been reported. Therefore, positive test results in patients

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receiving amoxicillin/clavulanic acid should be interpreted cautiously and confirmed by other diagnostic methods.

4.4.2. Paediatric population

See section 4.4.1

4.5. Interactions with other medicinal products and other forms of interactions

4.5.1. General information

Oral anticoagulants

Oral anticoagulants and penicillin antibiotics have been widely used in practice without reports of interaction. However, in the literature there are cases of increased international normalized ratio in patients maintained on acenocoumarol or warfarin and prescribed a course of amoxicillin. If co-administration is necessary, the prothrombin time or international normalized ratio should be carefully monitored with the addition or withdrawal of amoxicillin. Moreover, adjustments in the dose of oral anticoagulants may be necessary (see sections 4.4 and 4.8).

Methotrexate

Penicillins may reduce the excretion of methotrexate causing a potential increase in toxicity.

Probenecid

Concomitant use of probenecid is not recommended. Probenecid decreases renal tubular secretion of amoxicillin and elevates its plasma concentrations. Concomitant use of probenecid may result in increased and prolonged blood levels of amoxicillin but not of clavulanic acid.

Mycophenolate mofetil

In patients receiving mycophenolate mofetil, reduction in pre-dose concentration of the active metabolite mycophenolic acid (MPA) of approximately 50% has been reported following commencement of oral amoxicillin plus clavulanic acid. The change in pre-dose level may not accurately represent changes in overall MPA exposure. Therefore, a change in the dose of mycophenolate mofetil should not normally be necessary in the absence of clinical evidence of graft dysfunction. However, close clinical monitoring should be performed during the combination and shortly after antibiotic treatment.

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4.5.2. Additional information on special populations

See 4.5.1

4.5.3. Paediatric population

See 4.5.1

4.6. Fertility, pregnancy and lactation

4.6.1. Fertility

There are no data on the effects of amoxicillin or clavulanic acid on human fertility. Animal reproduction studies have shown no effect on fertility.

4.6.2. Pregnancy

Animal studies do not indicate direct or indirect harmful effects with respect to pregnancy, embryonal/fetal development, parturition or postnatal development (see section 5.3). Limited data on the use of amoxicillin/clavulanic acid during pregnancy in humans do not indicate an increased risk of congenital malformations. In a single study in women with preterm, premature rupture of the fetal membrane it was reported that prophylactic treatment with amoxicillin/clavulanic acid may be associated with an increased risk of necrotizing enterocolitis in neonates. Use should be avoided during pregnancy, unless considered essential by the physician.

4.6.3. Lactation

Both substances are excreted into breast milk (nothing is known of the effects of clavulanic acid on the breast-fed infant). Consequently, diarrhoea and fungus infection of the mucous membranes are possible in the breast-fed infant, so that breast-feeding might have to be discontinued. The possibility of sensitization should be taken into account. Amoxicillin/clavulanic acid should only be used during breast-feeding after benefit/risk assessment by the physician.

4.7. Effects on the ability to drive and use machines

Effects on the ability to drive and use machines have not been studied. However, undesirable effects may occur (e.g. allergic reactions, dizziness, convulsions), which may influence the ability to drive and use machines.

4.8. Undesirable effects

Summary of the safety profile

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The most commonly reported adverse drug reactions (ADRs) are diarrhea, nausea and vomiting.

The ADRs derived from clinical studies and post-marketing surveillance of amoxicillin/clavulanic acid sorted by MedDRA System Organ Class are listed below.

The following terminologies have been used in order to classify the occurrence of undesirable effects: very common ($\geq 1/10$), common ($\geq 1/100$ to <1/10), uncommon ($\geq 1/1,000$ to <1/10), rare ($\geq 1/10,000$ to <1/1,000), very rare (<1/10,000), not known (cannot be estimated from the available data).

System organ Class/ Undesirable effect	Frequency			
Infections and infestations				
Mucocutaneous candidosis	common			
Overgrowth of non-susceptible organisms	not known			
Blood and lymphatic system disorders				
Reversible leukopenia (including neutropenia)	rare			
Thrombocytopenia	rare			
Reversible agranulocytosis	not known			
Haemolytic anaemia	not known			
Prolongation of bleeding time and prothrombin time	not known			
Immune system disorders				
Angioneurotic oedema	not known			
Anaphylaxis	not known			
Serum sickness-like syndrome	not known			
Hypersensitivity vasculitis	not known			
Nervous system disorders				
Dizziness	uncommon			
Headache	uncommon			
Reversible hyperactivity	not known			
Convulsions	not known			
Aseptic meningitis	not known			
Gastrointestinal disorders				
Diarrhoea	very common			
Nausea	common			
Vomiting	common			
Indigestion	uncommon			
Antibiotic-associated colitis	not known			
Black hairy tongue	not known			

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System organ Class/ Undesirable effect	Frequency			
Hepatobiliary disorders				
Rises in AST and/or ALT	uncommon			
Hepatitis	not known			
Cholestatic jaundice	not known			
Skin and subcutaneous tissue disorders				
Skin rash	uncommon			
Pruritus	uncommon			
Urticaria	uncommon			
Erythema multiforme	rare			
Stevens-Johnson syndrome	not known			
Toxic epidermal necrolysis	not known			
Bullous exfoliative-dermatitis	not known			
Acute generalized exanthemous pustulosis (AGEP)	not known			
Drug rash with eosinophilia and systemic symptoms (DRESS)	Not known			
Renal and urinary disorders				
Interstitial nephritis	not known			
Crystalluria	not known			

4.9. Overdose

Symptoms and signs of overdose

- Gastrointestinal symptoms and disturbance of the fluid and electrolyte balances may be evident. Amoxicillin crystalluria, in some cases leading to renal failure, has been observed.
- Convulsions may occur in patients with impaired renal function or in those receiving high doses.
- Amoxicillin has been reported to precipitate in bladder catheters, predominantly after intravenous administration of large doses. A regular check of patency should be maintained.

Treatment of intoxication

- Gastrointestinal symptoms may be treated symptomatically, with attention to the water/electrolyte balance.
- Amoxicillin/clavulanic acid can be removed from the circulation by haemodialysis.

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5. PHARMACOLOGICAL PROPERTIES

5.1. Pharmacodynamic properties

Pharmacotherapeutic group and ATC code:

Pharmacotherapeutic group: Combinations of penicillins, including β -lactamase inhibitors

ATC code: J01CR02

Mechanism of action

Amoxicillin is a semisynthetic penicillin (β -lactam antibiotic) that inhibits one or more enzymes (often referred to as penicillin-binding proteins, PBPs) in the biosynthetic pathway of bacterial peptidoglycan, an integral structural component of the bacterial cell wall. Inhibition of peptidoglycan synthesis leads to weakening of the cell wall, which is usually followed by cell lysis and death.

Amoxicillin is susceptible to degradation by β -lactamases produced by resistant bacteria and therefore the spectrum of activity of amoxicillin alone does not include organisms which produce these enzymes.

Clavulanic acid is a β -lactam structurally related to penicillins. It inactivates some β -lactamase enzymes thereby preventing inactivation of amoxicillin. Clavulanic acid alone does not exert a clinically useful antibacterial effect.

Pharmacodynamic - Pharmacokinetic relationship

The time above the minimum inhibitory concentration (T>MIC) is considered to be the major determinant of efficacy for amoxicillin.

Mechanisms of resistance

The two main mechanisms of resistance to amoxicillin/clavulanic acid are:

- Inactivation by those bacterial β-lactamases that are not themselves inhibited by clavulanic acid, including class B, C and D.
- Alteration of PBPs, which reduce the affinity of the antibacterial agent for the target.

Impermeability of bacteria or efflux pump mechanisms may cause or contribute to bacterial resistance, particularly in Gram-negative bacteria.

Breakpoints

MIC breakpoints for amoxicillin/clavulanic acid are those of the European Committee on Antimicrobial Susceptibility Testing (EUCAST).

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organism	susceptibility breakpoints (μg/ml)				
	susceptible	intermediate	resistant		
Haemophilus influenzae ¹	≤ 1	-	>1		
Moraxella catarrhalis¹	≤ 1	-	>1		
Staphylococcus aureus ²	≤ 2	-	> 2		
Coagulase-negative staphylococci ²	≤ 0.25		> 0.25		
Enterococcus ¹	≤ 4	8	> 8		
Streptococcus A, B, C, G ⁵	≤ 0.25	-	> 0.25		
Streptococcus pneumoniae ³	≤ 0.5	1-2	> 2		
Enterobacteriaceae ^{1,4}	-	-	> 8		
Gram-negative Anaerobes ¹	≤ 4	8	> 8		
Gram-positive Anaerobes ¹	≤ 4	8	> 8		
Non-species related breakpoints ¹	≤ 2	4-8	> 8		

- 1. The reported values are for amoxicillin concentrations. For susceptibility testing purposes, the concentration of clavulanic acid is fixed at 2 mg/l.
- 2. The reported values are oxacillin concentrations.
- 3. Breakpoint values in the table are based on ampicillin breakpoints.
- 4. The resistant breakpoint of R>8 mg/l ensures that all isolates with resistance mechanisms are reported resistant.
- 5. Breakpoint values in the table are based on benzylpenicillin breakpoints.

The prevalence of resistance may vary geographically and with time for selected species, and local information on resistance is desirable, particularly when treating severe infections. As necessary, expert advice should be sought when the local prevalence of resistance is such that the utility of the agent in at least some types of infections is questionable.

Commonly susceptible species

- Aerobic Gram-positive micro-organisms
 - Enterococcus faecalis
 - Gardnerella vaginalis
 - Staphylococcus aureus (methicillin-susceptible)¹
 - Coagulase-negative staphylococci (methicillin-susceptible)¹
 - Streptococcus agalactiae
 - Streptococcus pneumoniae²
 - Streptococcus pyogenes and other β-haemolytic streptococci
 - Streptococcus viridans group
- Aerobic Gram-negative micro-organisms

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- Capnocytophaga spp.
- Eikenella corrodens
- Haemophilus influenzae³
- Moraxella catarrhalis
- Pasteurella multocida
- Anaerobic micro-organisms
 - Bacteroides fragilis
 - Fusobacterium nucleatum
 - Prevotella spp.

Species for which acquired resistance may be a problem

- Aerobic Gram-positive micro-organisms
 - Enterococcus faecium⁴
- Aerobic Gram-negative micro-organisms
 - Escherichia coli
 - Klebsiella oxytoca
 - Klebsiella pneumoniae
 - Proteus mirabilis
 - Proteus vulgaris

Inherently resistant organisms

- Aerobic Gram-negative micro-organisms
 - Acinetobacter sp.
 - Citrobacter freundii
 - Enterobacter sp.
 - Legionella pneumophila
 - Morganella morganii
 - Providencia spp.
 - Pseudomonas sp.
 - Serratia sp.
 - Stenotrophomonas maltophilia
- Other micro-organisms
 - Chlamydophila pneumoniae
 - Chlamydophila psittaci
 - Coxiella burnetti
 - Mycoplasma pneumoniae
 - 1. All methicillin-resistant staphylococci are resistant to amoxicillin/clavulanic acid

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- 2. *Streptococcus pneumoniae* that are resistant to penicillin should not be treated with this presentation of amoxicillin/clavulanic acid.
- 3. Strains with decreased susceptibility have been reported in some countries in the European Union with a frequency higher than 10%.
- 4. Natural intermediate susceptibility in the absence of acquired mechanism of resistance

5.2. Pharmacokinetic properties

Absorption

Amoxicillin and clavulanic acid, are fully dissociated in aqueous solution at physiological pH. Both components are rapidly and well absorbed by the oral route of administration. Absorption of amoxicillin/clavulanic acid is optimized when taken at the start of a meal. Following oral administration, amoxicillin and clavulanic acid are approximately 70% bioavailable. The plasma profiles of both components are similar and the time to peak plasma concentration (Tmax) in each case is approximately one hour.

The pharmacokinetic results for a study, in which amoxicillin/clavulanic acid (875 mg/125 mg tablets twice daily) was administered in the fasting state to groups of healthy volunteers are presented below:

Mean Pharmacokinetic parameters (± SD)							
Active substance(s)	Dose	C_{max}	T_{max}^{1}	AUC	T _{1/2}		
administered				(0-24H)			
	(mg)	(μg/ml)	(h)	(μg.h/ml)	(h)		
Amoxicillin							
Amoxicillin/Clavulanic acid	875	11.64	1.5	53.52	1.19		
875/125 mg		± 2.78	(1.0-2.5)	± 12.31	± 0.21		
Clavulanic acid							
Amoxicillin/Clavulanic acid	125	2.18	1.25	10.16	0.96		
875/125 mg		± 0.99	(1.0 - 2.0)	± 3.04	± 0.12		
¹ Median(range)							

Amoxicillin and clavulanic acid serum concentrations achieved with amoxicillin/clavulanic acid are similar to those produced by the oral administration of equivalent doses of amoxicillin or clavulanic acid alone.

Distribution

About 25% of total plasma clavulanic acid and 18% of total plasma amoxicillin is bound to protein. The apparent volume of distribution is around 0.3-0.4 l/kg for amoxicillin and around 0.2 l/kg for clavulanic acid.

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Following intravenous administration, both amoxicillin and clavulanic acid have been found in gall bladder, abdominal tissue, skin, fat, muscle tissues, synovial and peritoneal fluids, bile and pus. Amoxicillin does not adequately distribute into the cerebrospinal fluid.

From animal studies there is no evidence for significant tissue retention of drug-derived material for either component. Amoxicillin, like most penicillins, can be detected in breast milk. Trace quantities of clavulanic acid can also be detected in breast milk. Both amoxicillin and clavulanic acid have been shown to cross the placental barrier (see section 4.6).

Biotransformation

Amoxicillin is partly excreted in the urine as the inactive penicilloic acid in quantities equivalent to up to 10 to 25% of the initial dose. Clavulanic acid is extensively metabolized in man and eliminated in urine and faeces, and as carbon dioxide in expired air.

Elimination

The major route of elimination for amoxicillin is via the kidneys, whereas for clavulanic acid it is by both renal and non-renal mechanisms.

Amoxicillin/clavulanic acid has a mean elimination half-life of approximately one hour and a mean total clearance of approximately 25 l/h in healthy subjects. Approximately 60 to 70% of the amoxicillin and approximately 40 to 65% of the clavulanic acid are excreted unchanged in urine during the first 6 hours after administration of single tablets with amoxicillin/clavulanic acid 250 mg/125 mg or 500 mg/125 mg. Various studies have found the urinary excretion to be 50-85% for amoxicillin and between 27-60% for clavulanic acid over a 24 hour period. In the case of clavulanic acid, the largest amount of drug is excreted during the first 2 hours after administration.

Concomitant use of probenecid delays amoxicillin excretion but does not delay renal excretion of clavulanic acid (see section 4.5).

Pediatric population

The elimination half-life of amoxicillin is similar for children aged around 3 months to 2 years and older children and adults. For very young children (including preterm newborns) in the first week of life the interval of administration should not exceed twice daily administration due to immaturity of the renal pathway of elimination.

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Geriatric population

Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and to monitor renal function may be useful.

Gender

Following oral administration of amoxicillin/clavulanic acid to healthy males and female subjects, gender has no significant impact on the pharmacokinetics of either amoxicillin or clavulanic acid.

Patients with renal impairment

The total serum clearance of amoxicillin/clavulanic acid decreases proportionately with decreasing renal function. The reduction in drug clearance is more pronounced for amoxicillin than for clavulanic acid, as a higher proportion of amoxicillin is excreted via the renal route. Doses in renal impairment must therefore prevent undue accumulation of amoxicillin while maintaining adequate levels of clavulanic acid (see section 4.2).

Patients with hepatic impairment

Patients with hepatic impairment should be dosed with caution and hepatic function monitored at regular intervals.

5.3. Preclinical safety data

Nonclinical data reveal no special hazard for humans based on studies of safety pharmacology, genotoxicity and toxicity to reproduction.

Repeat dose toxicity studies performed in dogs with amoxicillin/clavulanic acid demonstrate gastric irritancy and vomiting, and discoloured tongue.

Carcinogenicity studies have not been conducted with amoxicillin/clavulanic acid or its components.

6. PHARMACEUTICAL PARTICULARS

6.1. List of excipients

Tablet core

- Croscarmellose sodium
- Colloidal anhydrous silica
- Magnesium stearate
- Microcrystalline cellulose

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Film coating – Opadry white OY-S-7191

- Titanium dioxide (E171)
- Hypromellose
- Propylene glycol
- Ethylcellulose

6.2. Incompatibilities

not applicable

6.3. Shelf life

36 months

6.4. Special precautions for storage

Store below 30°C.

Store in the original package to protect from moisture.

6.5. Nature and contents of container

Cardboard box with 10 film coated tablets in aluminium/aluminium blister (2 blisters of 5 tablets)

6.6. Special precautions for disposal and other handlings

No special requirements for disposal.

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

7. MARKETING AUTHORISATION HOLDER AND MANUFACURING SITE ADDRESS

7.1. Marketing Authorisation Holder

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

7.2. Manufacturer

Bilim Ilaç San. Ve Tic. A.Ş Çerkezköy Organize Sanayi Bölgesi, Karaağaç Mh.5, Sk.N°6 Kapaklı, Tekirdağ, 59510 Turkey.

8. MARKETING AUHORISATION NUMBER

See list of MAs per country

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9. DATE OF FIRST REGISTRATION

See list of MAs per country

10. DATE OF REVISION OF TEXT

03/2021

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