



PRODUCTNAME: Co-Amoxiclav Oral Suspension BP 100 mg +12.5 mg/ml

BRAND NAME: BACTOCLAV DRY SYRUP

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## SUMMARY OF PRODUCT CHARACTERISTICS

### **A. The brand name**

Bactoclav Dry Syrup

### **B. The international Non-proprietary names (INNs)**

Amoxicillin and potassium clavulanate

### **C. The pharmaceutical form, dosage and the route of administration**

Dry Syrup for Oral suspension,

Two doses should be given daily. One in the morning and one in the evening

### **D. The qualitative and quantitative composition of active ingredients and excipients:**

Each 1 ml of reconstituted suspension contains:

Amoxicillin Trihydrate BP equivalent to Amoxicillin.....100 mg

Diluted Potassium Clavulanate BP equivalent to Clavulanic Acid ...12.5 mg

### **EXCIPIENTS**

Silicon Dioxide, Sodium Benzoate, Aspartame, Succinic acid, Xanthan Gum, Strawberry Flvor.

### **E. Therapeutic indications:**

It is indicated for the treatment of the following infections in adults and children

Acute bacterial sinusitis (adequately diagnosed)

- Acute otitis media
- Acute exacerbations of chronic bronchitis (adequately diagnosed)
- Community acquired pneumonia
- Cystitis
- Pyelonephritis



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- Skin and soft tissue infections in particular cellulitis, animal bites, severe dental abscess with spreading cellulitis
- Bone and joint infections, in particular osteomyelitis.

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

#### **F. The dosage and method of administration:**

##### ***Posology***

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

The dose of Amoxicillin & clavulanic acid that is selected to treat an individual infection should take into account:

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

The use of alternative presentations of Amoxicillin & clavulanic acid (e.g. those that provide higher doses of amoxicillin and/or different ratios of amoxicillin to clavulanic acid) should be considered as necessary.

The duration of therapy should be determined 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

##### ***Elderly***

No dose adjustment is considered necessary.

##### ***Renal impairment***

Dose adjustments are based on the maximum recommended level of amoxicillin.

No adjustment in dose is required in patients with creatinine clearance (CrCl) greater than 30 ml/min.



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### *Hepatic impairment*

Dose with caution and monitor hepatic function at regular intervals

**DIRECTION FOR USE:** Slowly add boiled and cooled water to the bottle up to the level mark, close the bottle and shake thoroughly. If necessary add water again up to the level mark and shake well.

This medicine is given orally using a graduated syringe

The content of the syringe can be: given directly in the infant or child's mouth,

Or

Given after pouring into a spoon or glass

### *Usage of the graduated syringe:*

The amount of medicine per dose is based on the child's weight, as indicated on the syringe which is graduated in kg. In this way, the mark so the plunger directly indicate the dose.

Therefore, as the plunger is pulled up, the graduation read on the plunger corresponds to one dose for a child of the weight indicated.

Two doses should be given daily. One in the morning and one in the evening

This medicine can be give before, during or after meals

### **G. The Contraindications:**

It is contraindicated in the patients

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



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#### **H. The precautions and warnings**

- Before initiating therapy with amoxicillin/clavulanic acid, careful enquiry should be made concerning previous hypersensitivity reactions to penicillins, cephalosporins or other beta-lactam agents.
- 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.
- In the case that an infection is proven to be due to an amoxicillin-susceptible organisms(s) then consideration should be given to switching from amoxicillin/clavulanic acid to amoxicillin in accordance with official guidance.
- This presentation of Amoxicillin and Clavulanic acid is not suitable for use when there is a high risk that the presumptive pathogens have reduced susceptibility or resistance to beta-lactam agents that is not mediated by beta-lactamase susceptible to inhibition by clavulanic acid (e.g. penicillin-insusceptible *S. pneumoniae*).
- Convulsions may occur in patients with impaired renal function or in those receiving high doses.
- 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 Amoxicillin and Clavulanic acid discontinuation and contra-indicates any subsequent administration of amoxicillin.

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- Amoxicillin/clavulanic acid should be used with caution in patients with evidence of hepatic impairment
- 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.
- Antibiotic-associated colitis has been reported with nearly all antibacterial agents 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 contra-indicated in this situation.
- Periodic assessment of organ system functions; including renal, hepatic and hematopoietic function is advisable during prolonged therapy.
- 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.
- In patients with renal impairment, the dose should be adjusted according to the degree of impairment.
- 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.



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

Amoxicillin and potassium clavulanate **powder for oral suspension contains 2.5 mg of aspartame (E951) per ml.**

## **I. The Drug interactions**

### ***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.

### ***Methotrexate***

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

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### ***Probenecid***

Concomitant use of Probenecid is not recommended. Probenecid decreases the renal tubular secretion of amoxicillin. 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.

## **J. The use during pregnancy and lactation**

### ***Pregnancy***

Animal studies do not indicate direct or indirect harmful effects with respect to pregnancy, embryonal/foetal development, parturition or postnatal development. 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 foetal membrane it was reported that prophylactic treatment with amoxicillin/clavulanic acid may be associated with an increased risk of necrotising enter colitis in neonates. Use should be avoided during pregnancy, unless considered essential by the physician.

### ***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.

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Amoxicillin/clavulanic acid should only be used during breast-feeding after benefit/risk assessment by the physician in charge.

**K. The side effects**

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

The ADRs derived from clinical studies and post-marketing surveillance with Co-Amoxiclav, 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  $< 1/100$ )

Rare ( $\geq 1/10,000$  to  $< 1/1,000$ )

Very rare ( $< 1/10,000$ )

Not known (cannot be estimated from the available data)

<i>Infections and infestations</i>	
Mucocutaneous candidosis	Common
Overgrowth of non-susceptible organisms	Not known
<i>Blood and lymphatic system disorders</i>	
Reversible leucopenia (including neutropenia)	Rare
Thrombocytopenia	Rare
Reversible agranulocytosis	Not known
Haemolytic anemia	Not known
Prolongation of bleeding time and prothrombin time <sup>1</sup>	Not known
<i>Immune system disorders</i>	
Angioneurotic oedema	Not known



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Anaphylaxis	Not known
Serum sickness-like syndrome	Not known
Hypersensitivity Vacuities	Not known
<i>Nervous system disorders</i>	
Dizziness	Uncommon
Headache	Uncommon
Reversible hyperactivity	Not known
Convulsions <sup>2</sup>	Not known
Aseptic meningitis	Not known
<i>Gastrointestinal disorders</i>	
Diarrhoea	Very common
Nausea <sup>3</sup>	Common
Vomiting	Common
Indigestion	Uncommon
Antibiotic-associated colitis <sup>4</sup>	Not known
Black hairy tongue	Not known
<i>Hepatobiliary disorders</i>	
Rises in AST and/or ALT <sup>5</sup>	Uncommon
Hepatitis <sup>6</sup>	Not known
Cholestatic jaundice <sup>6</sup>	Not known
<i>Skin and subcutaneous tissue disorders</i>	
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



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Acute generalized exanthemous pustulosis (AGEP) <sup>9</sup>	Not known
<i>Renal and urinary disorders</i>	
Interstitial nephritis	Not known
Crystalluria <sup>8</sup>	Not known

<sup>3</sup> Nausea is more often associated with higher oral doses. If gastrointestinal reactions are evident, they may be reduced by taking amoxicillin/clavulanic acid at the start of a meal.

<sup>4</sup> Including pseudomembranous colitis and hemorrhagic colitis

<sup>5</sup> A moderate rise in AST and/or ALT has been noted in patients treated with beta-lactam class antibiotics, but the significance of these findings is unknown.

<sup>6</sup> These events have been noted with other penicillins and cephalosporins

<sup>7</sup> If any hypersensitivity dermatitis reaction occurs, treatment should be discontinued.

<sup>11</sup> Superficial tooth discolorations has been reported very rarely in children. Good oral hygiene may help to prevent tooth discoloration as it can usually be removed by brushing.

## **L. The over dosage**

### ***Symptoms and signs***

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***

Gastrointestinal symptoms may be treated symptomatically, with attention to the water/electrolyte balance.

Amoxicillin/clavulanic acid can be removed from the circulation by hemodialysis.



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### **M. The pharmacodynamics data**

Amoxicillin is semi synthetic penicillin (beta-lactam antibiotic) that inhibits one or more enzymes (often referred to as penicillin-binding proteins, PBPs) in the biosynthetic pathway of bacterial peptidoglycan, which is 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 beta-lactamase 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 beta-lactam structurally related to penicillins. It inactivates some beta-lactamase enzymes thereby preventing inactivation of amoxicillin. Clavulanic acid alone does not exert a clinically useful antibacterial effect.

#### PK/PD 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 that bacterial beta-lactamase 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.

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Breakpoints

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

Organism	Susceptibility Breakpoints (µg/ml)		
	Susceptible	Intermediate	Resistant
<i>Haemophilus influenzae</i> <sup>1</sup>	≤ 1	-	> 1
<i>Moraxella catarrhalis</i> <sup>1</sup>	≤ 1	-	> 1
<i>Staphylococcus aureus</i> <sup>2</sup>	≤ 2	-	> 2
Coagulase-negative staphylococci <sup>2</sup>	≤ 0.25		> 0.25
<i>Enterococcus</i> <sup>1</sup>	≤ 4	8	> 8
<i>Streptococcus A, B, C, G</i> <sup>5</sup>	≤ 0.25	-	> 0.25
<i>Streptococcus pneumoniae</i> <sup>3</sup>	≤ 0.5	1-2	> 2
Enterobacteriaceae <sup>1,4</sup>	-	-	> 8
Gram-negative Anaerobes <sup>1</sup>	≤ 4	8	> 8
Gram-positive Anaerobes <sup>1</sup>	≤ 4	8	> 8
Non-species related breakpoints <sup>1</sup>	≤ 2	4-8	> 8

<sup>1</sup> The reported values are for Amoxicillin concentrations. For susceptibility testing purposes, the concentration of Clavulanic acid is fixed at 2 mg/l.

<sup>2</sup> The reported values are Oxacillin concentrations.

<sup>3</sup> Breakpoint values in the table are based on Ampicillin breakpoints.

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<sup>4</sup> The resistant breakpoint of R>8 mg/l ensures that all isolates with resistance mechanisms are reported resistant.

<sup>5</sup> Breakpoint values in the table are based on Benzyl penicillin 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*

*Staphylococcus aureus* (methicillin-susceptible)£

*Streptococcus agalactiae*

*Streptococcus pneumoniae*<sup>1</sup>

*Streptococcus pyogenes* and other beta-hemolytic streptococci

*Streptococcus viridans* group

#### Aerobic Gram-negative micro-organisms

*Capnocytophaga* spp.

*Eikenella corrodens*

*Haemophilus influenzae*<sup>2</sup>

*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

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*Enterococcus faecium* §

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.

*Morganella morganii*

*Providencia* spp.

*Pseudomonas* sp.

*Serratia* sp.

*Stenotrophomonas maltophilia*

§ Natural intermediate susceptibility in the absence of acquired mechanism of resistance.

£ All methicillin-resistant staphylococci are resistant to amoxicillin/clavulanic acid

<sup>1</sup> *Streptococcus pneumoniae* that is fully susceptible to penicillin may be treated with this presentation of amoxicillin/clavulanic acid. Organisms that show any degree of reduced susceptibility to penicillin should not be treated with this presentation.

<sup>2</sup> Strains with decreased susceptibility have been reported in some countries in the EU with a frequency higher than 10%

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## N. The pharmacokinetic data

### *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 ( $T_{max}$ ) in each case is approximately one hour.

### *Distribution and plasma protein binding:*

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.

### *Metabolism:*

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 kidney, 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. 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



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**O. Incompatibilities**

Not Applicable

**P. The storage conditions**

Store in a dry place below 25°C. Keep out of the reach of children

Reconstituted suspension: 7 days

Reconstituted suspensions should be stored at 2°C - 8°C (but not frozen) for up to 7 days.

**Q. The instructions for use In handling**

None

**R. Effect on ability to drive and use machines**

No studies on the effects on the ability to drive and use machines have been performed. However, undesirable effects may occur (e.g. allergic reactions, dizziness, convulsions), which may influence the ability to drive and use machines

**S. The shelf life**

**Before reconstitution:** 24 Months

**After Reconstitution:** 7 Days from date of Reconstitution

**T. Inscription in a list of poisonous substances if applicable**

Not applicable

**U. Packaging**

100 ml amber color glass bottle packed in a carton along with pack insert



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**V. The name and address of manufacturer(s)**

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