



Private Bag X828, PRETORIA, 0001 Dr AB Xuma Building1112 Voortrekker Road, Pretoria Townlands 351-JR, PRETORIA, 0187 Tel (012) 395 8000, Fax (012) 395 8918

Mr E van Zyl
Equity Pharmaceuticals (Pty) Ltd
100 Sovereign Road
Route 21 Corporate Park
Nellmapius Drive
Irene
Pretoria

Dear Mr van Zyl

Section 21 Authorization for BENZYL PENICILLIN 1MU INJECTION

Attached, please find the Authorization for exemption under Section 21 of the Medicines and Related Substances Act by SAHPRA granted for:

Benzyl Penicillin 1MU Injection

The quantities for which approval was granted are only estimates based on procurement by provinces over the last 6 months. Please note that the National Department of Health (NDOH) cannot guarantee the procurement of these quantities, as NDOH has no control over orders being placed by provincial depots, and current stock holding might influence estimated quantities.

The following process will be followed to ensure the quality of the product being brought in:

- 1. Manufacturer will submit an assay and identification of every batch imported.
- 2. An additional assay of every batch will be done by a quality control laboratory.
- 3. A random sample will be assayed during the authorized period by a quality control laboratory.
- Aggregate statistics to be submitted to NDOH in the first week of each month of all orders received and quantities supplied per province.
- 5. The NDOH needs to be advised of the quantities and date of arrival of stocks in terms of this authorization within 7 days after arrival.
- 6. The supplier will provide monthly reports, by the 7th of each month, using the attached format of orders received and issues done.
- Participating Authorities (PAs) will provide a consolidated close out report of usage using the attached format on the date when an authorization lapses.
- 8. The full quantities imported in terms of this Section 21authorisation must be accounted for.
- 9. Note that this authorization DOES NOT cover supplies to the private sector.

Section 21 Authorisation re Benzyl Penicillin 1MU INJ 18092023

10. Where this authorization is obtained to provide security of supply due to supply challenges from the contracted supplier, PAs are requested to buy out against contracted suppliers and ensure that related orders are cancelled accordingly to prevent over stocking once the contracted supplier gets back into stock.

It should be noted this authorization applies only for use of the product in the public sector with estimated usage quantities for a period of one month. The authorization is expected to expire on 17 March 2024.

Table 1: Provincial estimates

Provinces	Six Month's Estimated Quantity
Correctional Services	0
EC-MT	15600
EC-PE	14000
FS	2100
GP	0
KZN	8000
LP	0
MP	17644
NC	1500
NW	3900
SAMHS	0
WC	3000
Total	65744

Yours sincerely

A JONAL COOLEN

CHIEF DIRECTOR: SECTOR WIDE PROCUREMENT

ECOG/0 (PI : 3TAD



Section 21 Response Letter

9/15/2023 1:53 PM

Khadija Jamaloodien

National Department of Health Dr AB Xuma Building 1112 Voortrekker Rd Pretoria Townlands 351-JR Pretoria 0187

Buhle.Mbongo@health.gov.za

Dear Khadija Jamaloodien,

REQUEST TO USE UNREGISTERED MEDICINE IN TERMS OF SECTION 21 OF THE MEDICINES AND RELATED SUBSTANCES ACT, 1965 (ACT 101 OF 1965):

Your application dated 9/15/2023 11:40 AM refers

- A. STATUS: Approved
- B. APPLICANT: Khadija Jamaloodien
- C. IMPORTING COMPANY: Equity Pharmaceuticals (Pty) Ltd
- D. PATIENT/(S):
- E. UNREGISTERED MEDICINES:

GENERIC NAME: Benzyl Penicillin

1MU INJ

TRADE NAME: Benzyl Penicillin

for injection BP 1MU

F. QUANTITY: Benzyl Penicillin 1MU

Injection x 66000 vials

G. LETTER NUMBER: B-20783

Section 21 authorization letters are valid for a period of six months from the letter date, unless otherwise specified.

Comments:

Yours faithfully,

Dr S Munbodh

Manager: Section 21 Category A Medicines

T Sehloho Senior Manager: Clinical Evaluations Management





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REQUEST FOR QUOTATION FORM

- Instruction to complete this Request for Quotation (RFQ)
 PLEASE PROVIDE A QUOTE FOR THE FOLLOWING PRODUCT(S).
 PLEASE QUOTE ON THIS RFQ FORM AND ATTACH YOUR QUOTE WITH THE REQUESTED DETAILS.
 THE SECTIONS HIGHLIGHTED IN YELLOW MUST BE COMPLETED BY THE SUPPLIER.
- THIS DOES NOT CONSTITUTE ANY OBLIGATION TO PROCURE THE ITEM AS THIS WILL BE SUBMITTED FOR
 CONSIDERATION TO PROVINCIAL PROCUREMENT UNITS TO SERVE AS A BUY OUT AGAINST CURRENT NON-COMPLIANT
 SUPPLIERS.

SUPPLIERS.							
ONLY RESPONSES FROM DULY REGISTERED SUPPLIERS WILL BE EVALUATED							
REFERENCE NUMBER:	NORMAL	SE	CTION 21	х		S21RFQ129	
QUOTE ENQUIRY DATE	10/08/2023	QUOTE	CLOSING D	ATE		21/08/2023	
FOR CRITICAL DELIVERY, DELIVERY REQUESTED ON/BEFORE (SCM Practitioner to Specify if applicable)							
REQUESTING INSTITUTION CONTACT DETAILS							
NAME OF REQUESTOR		1. 1. 7 1	Buh	le Mbongo			
EMAIL ADDRESS		<u>B</u> ı	uhle.Mboi	ngo@health	.gov.za		
PHONE No.	012	395 9539	FAX	(No.			N/A
PRODUCT INFORMATION							
DESCRIPTION PER MPC	BENZYL PEN	IICILLIN 1MU IN	NJECTION		- 4	and a	
TRADE DESCRIPTION	Benzylpenicillin for Injection BP 1MU						
UNIT OF MEASURE	1's	PAC	K or BOX	(SIZE/ QUAI	VTITY)	1's	
QUANTITY REQUIRED	66 000 VIA	LS/AMPOULE	S				
TO BE COI	MPLETED E	Y THE SUPP	PLIER/S	ERVICE PI	ROVIE	DER	
	SUPPLIER	CONTACT DETA	AILS (as po	er CSD)			
COMPANY NAME	Equity Phar	maceuticals (Pt	ty) Ltd	SAPET A			
SUPPLIER NUMBER			MA	AA007480			
SECURITY CODE							
SUPPLIER CODE (NDoH)			*				
	NAME	Ehrard van Z	yl				
CONTACT PERSON 1	PHONE	012 3	45 1747	(-11)	FAX	(012 345 1412
CONTACT PERSON I	MOBILE	072 040 851	1	19/20/38			
	E-MAIL ehrard@equitypharma.co.za						
CONTACT PERSON 2	NAME	Jaco Schoem	an				
CUNTACT PERSON 2	PHONE	THE REAL PROPERTY.		012 345	1747	Ty.	

	MOBILE	07	6 734 0080	A SENEDENCE	
	E-MAIL	jac	cos@equitypharma.co.za		
		QL	JOTE DETAILS		
PRICE PER UNIT (INCL. VAT)	R 4.83		TOTAL PRICE (INCL. DELIVERY & VAT)	R 318 780.00	
VOLUMES AVAILABLE – 14DAYS	AND RECENT PRODUCES OF THE RESIDENCE OF THE PRODUCE				
VOLUMES AVAILABLE – 28DAYS					
VOLUMES AVAILABLE – 56DAYS			66 000		
VOLUMES AVAILABLE – 112DAYS					
QUOTE VALIDITY PERIOD	180 days				
NORMAL LEAD/DELIVERY TIME	3 day				
	DEVIA	ATIO	N TO SPECIFICATION		
COMMENTS:					
	DEC	LAR	ATION BY SUPPLIER		
	g this bid, the	ere h gardi	nas been no consultation, communication ing the price, quality, quantity, specificat	-	
arrangement with any competito	g this bid, the	ere h gardi	nas been no consultation, communication ing the price, quality, quantity, specificat	-	
arrangement with any competito delivery particulars of the produc	g this bid, the	ere h gardi	nas been no consultation, communication ing the price, quality, quantity, specificat which this bid invitation relates.	ions and conditions o	
arrangement with any competito delivery particulars of the produc NAME	g this bid, the r/supplier reg tts or services	ere h gardi	nas been no consultation, communication ing the price, quality, quantity, specificat which this bid invitation relates. Ehrard van Zyl	ions and conditions o	

Please ensure that you include the following as part of the Quotation:

- Delivery Time (Weeks)
- Price (Vat Inclusive)
- Generic Name
- Trade Name
- Central Supplier Database Summary Report (CSD)
- Medicine Registration Certificate (Only for Locally Registered Products)
- *Artwork/Labelling
- *Package Insert: (Please attach)
- *Manufacturer Certificate: (Please attach)
- *Country of Origin: (Please indicate)

All of the above is required to expedite the process in considering the quotation.

Please SUBMIT COMPLETED RFQ FORM AND QUOTATIONS ON AN OFFICIAL COMPANY LETTERHEAD

^{*}Additional items required when submitting a quote for a Section 21 Item (Unregistered Medicine)

NB:

- The size of each individual attachment must not be more than 2MB (you may attach multiple files in one email but collectively they should not be more than 2MB in size).
- Please ensure that you provide all prescribed documentation that is outlined on page two of this RFQ.
- Kindly be advised that a picture format of an Artwork shall not be accepted. Artwork must be in pdf or word format only.
- All prices must please be submitted in two decimals.
- If submitting more than one quotation, please make sure that your subject line includes e.g., 1 of 2 or 1 of 3 etc.
- Any submission with missing documentation shall not be considered.
- Any submission with blurry relevant documents shall not be considered.
- Email subject line for responses with quotes must be kept unchanged from the originally sent RFQ email.

Please SUBMIT COMPLETED RFQ FORM AND QUOTATIONS ON AN OFFICIAL COMPANY LETTERHEAD

21/08/2023



Equity Pharmaceuticals (Pty) Ltd. 1997/009942/07

+27 12 345 1747 +27 12 345 1412

equity@equitypharma.co.za

www.clinigengroup.com www.equitypharma.co.za

QUOTATION # 20230821

TO: National Department of Health

TEL: 012 395 9539

FAX:

Email: Section21Quotes@health.gov.za

CONTACT PERSON: Buhle Mbongo

NB IMPORTED AND SUPPLIED UNDER SECTION 21 TERMS

PRODUCT CODE	DESCRIPTION	PACK SIZE	QUANTITY	PRICE EXCL	TOTAL INCL
	Benzylpenicillin for Injection BP 1MU	1's	1	R 4.20	R 4.83
			66 000	R 277 200.00	R 318 780.00
	a a				
			66 000	R 277 200.00	R 318 780.00

Employee Signature:		W
Date: <u>Z1/08/</u> 2	2023	

Approved by: Ehrard van Zyl / Carel Bouwer

Valid for 180 days





Equity Pharmaceuticals (Pty) Ltd. 1997/009942/07

+27 12 345 1747 +27 12 345 1412

equity@equitypharma.co.za

www.clinigengroup.com www.equitypharma.co.za

National Department of Health

Directorate: Affordable Medicines

E-mail: Buhle.Mbongo@health.gov.za

Attention: Ms Buhle Mbongo

Dear Ms Mbongo

Re: Request for quotation - Benzyl Penicillin 1MU - Section 21 Supply

Trust you are well. Please find below our quotation for Benzylpenicillin for Injection BP 1MU supplied under section 21 terms.

Quantity: 66 000 vials

Delivery Time (Weeks): 8 Weeks after approval

Price (Vat Inclusive): R 4.83 per vial

Generic Name: Benzyl Penicillin for Injection BP 1MU Trade Name: Benzylpenicillin for Injection BP 1MU

1 vial

Packaging:

Specifications: 1 Million Units Shelf Life: 24 months

Package Insert: **Attached**

Manufacturer: Karnataka Antibiotics & Pharmaceuticals Ltd.

Country of Origin: India

Please note that the immediate availability of the product is conditioned on the manufacturer receiving notice of our order as soon as possible. Unfortunately, the stock cannot be reserved for our purposes for too long.

We look forward to your response.

Please contact me if you require any additional information.

Kind Regards

Éhrard van Zyl

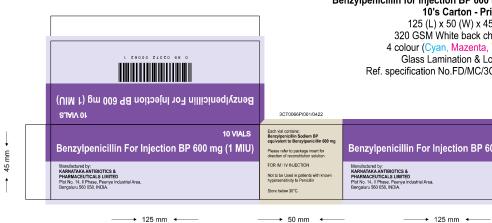
Benzylpenicillin for Injection BP 600 mg 1.0 MIU - South Africa Vial Sticker label 65 (L) x 18 (H) mm 4 colour (Cyan, Mazenta, Yellow, Black) Ref. specification No.FD/VL/3LP0913/001/0422



300 % Enlarged size

Each vial contains: Benzylpenicillin Sodium BP equivalent to Benzylpenicillin 600 mg	Benzylpenicillin for Injection BP 600 mg (1 MIU)	Not to be Used in patients with known hypersensitivity to Penicillin Store below 30°C. Mfg. Lic. No.: SP-96/84
Please refer to package insert for direction of reconstitution solution.	Manufactured by: KARNATAKA ANTIBIOTICS &	Batch No.:
FOR IM / IV INJECTION	PHARMACEUTICALS LIMITED Plot No. 14, Il Phase, Peenya Industrial Area, Bengaluru 560 058, INDIA.	Mfg. Date; Exp. Date;

Prepared by	Checked by	Reviewed by		Approved by
AM (RNG)	E / IC - Production	E/IC-FD	DGM (RPS)	AGM (NCM)



Benzylpenicillin for Injection BP 600 mg 1.0 MIU - South Africa 10's Carton - Printed

125 (L) x 50 (W) x 45 (H) mm 320 GSM White back chromo board 4 colour (Cyan, Mazenta, Yellow, Black) Glass Lamination & Lock bottom Ref. specification No.FD/MC/3CT0066P/001/0422

10 VIALS Benzylpenicillin For Injection BP 600 mg (1 MIU)

KEEP OUT OF REACH OF CHILDREN

Mfg. Lic. No.: SP-96/84 Batch No.: Mfg. Date: Exp. Date:

→ 50 mm ←

Prepared by	Checked by	Reviewed by		Approved by
111 (0110)		E 110		101101010

Benzylpenicillin for Injection BP 1.0 MU & 5.0 MU - KAPL Export Pack Insert Open Length 340 (L) x 240(H) mm 57 GSM White Print Paper, Colour Black

Immune System Disorders
Very Common 2 10% 1
Patients undergeoing treatment for syphilis or neurosyphilis with Benzylpericillin may develop a Jarisch-Herxheimer reaction.

Common (1-10%)
Hypersensitivity to penicillin in the form of rashes (all types), fever, and scrum sickness may occur (1-10% treated patients). These may be treated with artibistamine drugs.

Rare (0.01%-0.1%) More rarely, anaphylactic reactions have been reported (<0.05% treated patients).

Nerrous System Disorders
Rame (107)**0.17-bj
Central nervous system toxicity, including convulsions, has been reported with massive doses over 60 g per day and in patients with severe renal impairment.

Renal and Urinary Disorders Rare (0.01%-0.1%)

Symptoms and Treatment of Overdose
Symptoms of overdosage includes convulsion and neurological adverse reactions. In case of overdosage, discontinue medication, treat symptomatically and institute supportive measures as required. In patients with renal function impairment, amplicallin-class antibiotics can be removed by haemodialysis but not by performed dailysis.

Presentation
One folded paper box contains 10 vials or 50 vials.

Storage Condition Store below 30°C.

Shelf Life
Unopened vials: 36 months from the date of manufacture if kept as recommended.
Reconstituted solution: Freshly prepared solutions should be used immediately.

Manufactured by:
KARNATAKA ANTIBIOTICS &
PHARMACEUTICALS LIMITED
Plot No. 14, 11 Phase, Peonya Industrial Area,
Bengaluru, 560 058, INDIA.
Tel: 091 (080) 23372123
Fax: 091 (080) 23371350

Date of revision of package insert April 2022

Benzylpenicillin for Injection BP

Product Name BENZYLPENICILLIN FOR INJECTION BP 1.0 MU BENZYLPENICILLIN FOR INJECTION BP 5.0 MU

Product Description
A white crystalline powder in glass vials. Pale yellow solution after reconstitution.

 $\begin{array}{l} \textbf{Composition} \\ \textbf{BENZYLPENICILLIN FOR INJECTION BP} \ IMU \\ \textbf{Each vial contains Benzylpenicillin Sodium BP} \ 600 \ \text{mg}. \end{array}$

BENZYLPENICILLIN FOR INJECTION BP 5MU Each vial contains Benzylpenicillin Sodium BP3 g.

Pharmacodynamics
General Properties:
Benzylpenicifiles sodium BP is a beta-lactam antibiotic. It is bacteriocidal by inhibiting bacterial cell wall biosynthesis.

 ${\it Breakpoints:} \\ The tentative breakpoints (British Society for Antimicrobial Chemotherapy, BSAC) for Benzylpenicillin sodium BP are as follows:$

Organism	Susceptibility ≤ (mg/L)	Intermediate susceptibility (mg/L)	Resistant ≥ (mg/L)
Streptococcus pneumoniae Neisseria gonorrhocae	0.06	0.12 - 1.0	2.0
Neisseria meningitides	0.06		0.12
Haemolytic streptococci Staphylococci Moraxella catarrhalis Haemophilus influenza	0.12		0.25
Rapidly growing anaerobes	1.0		2.0

Type of Microorganism	Microorganism	Range of acquired resistance
Aerobic Gram-positive	Bacillus anthracis	0%**
microorganism	Cornybacteriumdiphtheriae	0%*
	Haemolytic streptocoeci (including Streptocoecus pyrogenes)	0%* - 3%**
	Listeria monocytogenes	0%**
	Streptococcus pneumoniae	4%* - 40%**
	Streptococcus viridans	3 - 32%*
Aerobic Gram-negative	Neisseria gonorrhoeae	9-10%*
nicroorganisms	Neisseria meningtidis	18%*
	Pasteurellamultocida	0%***
Anaerobic microorganisms	Actinomyces israelii	8%**
	Fusobacterium nucleatum and Fusabacteriumnecrophorum	Usually sensitive
	Gram-positive sporing bacilli (including Clostridium tetani and Clostridium perfringens [welchii])	14%**
	Gram-positive cocci (including peptostreptococcus)	7%*
Other microorganism	Borrelia bugdorferi	Usually sensitive
	Capnocytophaga canimorosus	Usually sensitive
	Leptospirae	Usually sensitive
	Streptobacillusmoniliformis and Spirrillum minus	Usually sensitive
	Treponemapallidum	0%**

Type of Microorganism	Microorganism	Range of acquired resistance
Aerobic Gram-positive	Congulase negative Staphylococcus	71 - 81%*
nicroorganism	Enterococcus Spp	Resistant
	Staphylococcus aureus	79 – 87%*
Aerobic Gram-negative	Acinetobacter	Resistant
microorganisms	Bordetella pertussis	Generally resistant
	Brucella spp.	Resistant
	Enterobacteriaceae (including Escherichia coli, Salmonella, Shigella, Enterobacter, Klebsiella, Proteus, Citrobacter)	Generally resistant
	Haemophilus influenza	Resistant
	Pseudomonas	Resistant
anaerobic microorganisms	Bacteroides fragilis	100%***

* UK data; ** European data, ***Global data

Known Resistance Mechanisms and Cross-resistance
Penicillin resistance can be mediated by alteration of penicillin binding proteins or development of beta-lactamases.

Resistance to penicillin may be associated with cross-resistance to a variety of other heta lactam antibiotics either due to a shared target site that is altered, or excision to be consistent or the construction of the constru

Pharmacolinetics

Berrylepsticillis soldum BP rapidly uppears in the blood following intramacolar injection of water-soluble salts and maximum concentrations are usually reached in 15-30 minutes. Peak plasma concentrations fabout 2 meyim have been reported after does of 600 mey with therapeutic plasma concentrations for most assecptible cognisims detectable for about 50 nous. Approximately 60% of the does in pieced in versionly bound to plasma protein.

adults with normal renal function the plasma half-life is about 30 minutes. Most of the dose (60-90%) undergoes renal elimination, 10% by glomerular ration and 90% by tubular secretion. Tubular secretion is imbited by probenecid, which is sometimes given to increase plasma penicillin concentrations. large elimination of Benzylpencillin solomin Braceounts for rolly a minor faction of the dose.

Indication

Benzylpenicillin is indicated for most wound infections, pyogenic infections of the skin, soft tissue infections and infections of the respiratory tract. It is also indicated for the following infections caused by penicillin-sensitive microorganisms:

Its also indicated for the following infections caused by pericillin-sensitive microorganisms:

Generalised infection and septicensis informs unsceptible beateria.

Acute and chronic osteomyelisis, sub-care beaterial endocarditis and meningitis caused by assecptible organisms.

Fertunae, reintempostas, unithera, arish the crit relationsist and severe 1 pure disease.

Complications secondary to geometroea and sybihilis (e.g. ganococcul artiritis or endocarditis, congenital syphilis and neurosyphilis).

Diphitheria brain absencess and preductively and the second secondary to geometric and the secondary to general s

Consideration should be given to official local guidance (e.g. national recommendations) on the appropriate use of antibacterial agents.

Susceptibility of the causative organism to the treatment should be tested (if possible), although therapy may be initiated before the results are available

Recommended Dosage
Route of administration:
The following dosages apply to both intramuscular and intravenous injection.
Alternate sites should be used for repeated injections.

 $\frac{600mg\ vial}{Dissolve\ the\ contents\ in\ 2ml\ or\ more\ of\ Sterilised\ Water\ for\ Injections\ immediately\ before\ use.}$

 $3g_vial$ Dissolve the contents in 10ml or more of Sterilised Water for Injections immediately before use.

age and administration:

Dosage and administration:
default
default
600 to 3,00 mg (1 to 6 mega units) daily, divided into 4 to 6 doses, depending on the indication. Higher doses (up to 14.4 g/day (24 mega units) in divided
dose) may be given in serious infections such as adult meningitis by the intravenous route.

In bacterial endocarditis, 7.2 to 12 g (12 to 20 mega units) or more may be given daily in divided doses by the intravenous route, often by infusion.

High doses should be administered by intravenous injection or infusion, with intravenous doses in excess of 1.2 g (2 mega units) being given slowly, taking at least one minute for each 300 mg (0.5 mega unit) to avoid high levels causing irritation of the central nervous system and/or electrolyte imbalance. High dosage of Benzylpenicillin sodium BP may result in hypernatraemia and hypokalaemia unless the sodium content is taken into account.

Children aged 1 month to 12 years 100 mg/kg/day in 4 divided doses; not exceeding 4 g/day.

Infants 1-4 weeks 75 mg/kg/day in 3 divided doses.

Newborn Infants 50 mg/kg/day in 2 divided doses

Meningococcal disease:
Children I month to 12 years: 180-100 mg/kg/day in 4-6 divided doses, not exceeding 12 g/day.
Infante 14 weeks: 50 years; 180-100 mg/kg/day in 3divided doses.
Adults and children over 12 years: 24 g every 4 hours

<u>Promuture Architectural Amountains</u>

Doing abound to be more frequent than every 8 or 12 hours in this age group, since renal clearance is reduced at this age and the mean half-life of Benzylponicillin may be as long as 3 hours.

Since infants have been founded of everlop severe local reactions to intransacolar injections, intravenous treatment should preferably be used.

Patients with renal insufficiency
For doese of 16.6-1.2 g (1.2 mega units) the dosing interval should be no more frequent than every 8-10 hours.
For this dosses g. 4.44 g (24 mega units) required for the treatment of serious infections such as meningitis, the dosage and dose interval of Benzylpenicillin sodium BP should be adjusted in accordance with the following schedule:

Creatinine clearance (mL per minute)	Dose (g)	Dose (mega units)	Dosing interval (hours)
125	1.2 or 1.8	2 or	2
60	1.2	2	4
40 20	0.9 0.6	1.0	4
10	0.6 0.3	0.5	6
Nil	or 0.6	or 1.0	8

The dose in the above table should be further reduced to 300 mg (0.5 mega units) 8 hourly if advanced liver disease is associated with severe renal failure. If haemodialysis is required, an additional dose of 300 mg (0.5 mega units) should be given 6 hourly during the procedure.

Elderly patients
Elimination may be delayed in elderly patients and dose reduction may be necessary.

 $\label{lem:compatibility} In compatibility Benzylpenic illin sodium BP and solutions that contain metal ions should be administered separately.$

Benzylpenicillin sodium should not be administered in the same syringe / giving set as amphotericin B, cimetidine, cytarabine, flucloxacillin, hydroxyzine, methylprednisolone, or promethazine since it is incompatible with these drugs.

Contraindication

Benzylepnicillin is contraindicated in individuals with a history of allergy to penicillins.
Hypersensitivity to any ingredient of the preparation.

Cross allergy to other beta-lactams such as cephalosporins should be taken into account.

In the presence of impaired renal function, large doses of penicillin can cause cerebral irritation, convulsions and coma.

Skin sensitisation may occur in persons handling the antibiotic and care should be taken to avoid contact with the subst

It should be recognised that any patient with a history of allergy, especially to drugs, is more likely to develop a hypersensitivity reaction to penicillin. Patients should be observed for 30 minutes after administration and if an allergic reaction occurs the drug should be withdrawn and appropriate treatment given.

Delayed absorption from the intramuscular depot may occur in diabetics.

Prolonged use of Boury/penicillin may occasionally result in an overgrowth of non-susceptible organisms or yeast and patients should be observed curefully for superinfections.

Pseudomembranous colitis should be considered in patients who develop severe and persistent diarrhoea during or after receiving Benzylpenicillin. In this situation, even if Clostridium difficile is only suspected, administration of Benzylpenicillin should be discontinued and appropriate treatment given.

Interactions with Other Medicaments
The efficacy of oral contraceptives may be impaired under concomitant administration of Benzylpenicillin sedium BP, which may result in unwanted pregnancy. Women shign goal contraceptives should be aware of this and should be informed about afternative methods of contraception.

There is reduced excretion of methotrexate (and therefore increased risk of methotrexate toxicity) when used with Benzylpenicillin sodium BP.

Probenecid inhibits tubular secretion of Benzylpenicillin sodium BP and so may be given to increase the plasma con

Penicillins may interfere with: Urinary glucose tests Coomb's tests Tests for urinary or serum proteins Tests which use bacteria e.g. Guthrie test

Pregnancy and Lactation
Benzylpenicillis sodium BP has been taken by a large number of pregnant women and women of childbearing age without an increase in malformations or other dractor or inder tharmful effects on the foetus having been observed.

Although it is not known if Benzylpenicillin sodium BP may be excreted into the breast milk of nursing mothers, it is actively transported from the blood to milk in animals and trace amounts of other penicillins in human milk have been detected.

Side Effects
Blood and Lymphatic System Disorders
Prov. (0.01%, 0.18%)

Rate (10/13%—11/76)
Haemolylicanaemia and granulocytopenia (neutropenia), agranulocytosis, leucopenia and thrombocytopenia, have been reported in patients receiving prolonged high doses of benzylpenicillin sodium BP(eg. Subacute bacterial endocarditis).

3