

KARNATAKA ANTIBIOTICS & PHARMACEUTICALS LIMITED

(A Government of India Enterprise)

| ENQUIRY REF. No. | KAPL/QAD/020/2305 | |
|------------------|-----------------------|--|
| DATE | 31.01.2025 | |
| DUE DATE | 05/02/2025 (13.00HRS) | |

Dear Sir,

Please submit your lowest and competitive offer in a SEALED ENVELOPE, DULY SUPERSCRIBING OUR ABOVE ENQUIRY REF. NO., DATE and DUE DATE on it/ OR MAIL, with other details of F.O.R terms, Taxes, Credit period, Delivery offered, Name of the Make, Detailed Specification etc., for below mentioned material/s

| SL. NO. | ITEM CODE | ITEM DESCRIPTION | UOM | OTV |
|------------|-----------|---|-----|-----|
| 01 | QSPHPL218 | 25CMX4.6MM ENDCAPPED ODS AMOR ORGANO SILICA PORUS | NOS | 02 |

Please ensure that your offer reaches us on or <u>before Due Date by courier OR Speed post or</u> By hand in sealed cover only to below office address:

M/s. Karnataka Anitibiotics and Pharmaceuticals Limited Plot No.37, Arka The Business Centre ,NTTF Main Road, Peenya Industrial Area 2nd Phase ,Bengaluru-560058 ph. No.080-23571590

OTHER TERMS:

1. F.O.R TERMS

2. GST %

3. PACKING & FORWARDING CHARGES

4. CREDIT PERIOD

5. DELIVERY OFFERED

: DOOR DELIVERY

: PLEASE SPECIFY

: NOT APPLICABLE

: 30 DAYS

NOTE:

- 1).IF YOU ARE NOT PARTICIPATING IN THE TENDER PLEASE SEND A REGRET LETTER.
- 2). VENDER HAS TO QUOTE AS PER OUR TENDER IN YOUR COMPANY LETTER HEAD.
- 3).QUOTATION MUST BE SUBMITTED IN TWO SEALED COVERS (TECHNICAL&COMMERCIAL /PRICE BID)SEPARATELY AND IN ONE ENVELOP OR ELSE YOUR PROPOSAL WILL NOT BE CONSIDERED.

IF YOU NEED ANY CLARIFICATION, PLEASE CONTACT US.

Thanking you,

Yours faithfully,
For KARNATAKA ANTIBIOTICS
& PHARMACEUTICALS LIMITED

YUVARAJA M

DEPUTY MANAGER PURCHASE DEPT

MOB:9945317873

ITY CONTROL DEPARTMENT



KARNATAKA ANTIBIOTICS & PHARMACEUTICALS LIMITED

(A Government of India Enterprise)

User Requirement specifications

Material Description: HPLC COLUMN 25 cm x 4.6mm, 5u,End-capped octadecylsilyl amorphous organosilica polymer

URS Number: QC/URS/018/0125

1. Description and Quantity:

| | The state of the s |
|----------------------|--|
| Material Description | 25cm x 4.6mm, 5u, End-capped octadecylsilyl amorphous organosilica polymer |
| Item code | QSPHPL218 |
| Quantity/ Box | 2 |

2. User Specifications:

| # | Requirement | Specification | |
|----|---------------------------------|--|--|
| 1 | Brand Name | 25cm x 4.6mm,5u, End-capped C18 amorphous organosilica polymer | |
| 2 | Make | WATERS | |
| 3 | Brand | Xterra | |
| 4 | Cat. Number | 186000494 | |
| 5 | Matrix active group | MS C18 | |
| 6 | Particle size | 5u | |
| 7 | Length (mm) | 250 | |
| 8 | Internal Diameter (I.D.) | 4.6 mm | |
| 9 | Particle type | End capped amorphous organosilica polymer | |
| | Particle Shape | Spherical | |
| 10 | External Construction Materials | Stainless Steel | |
| | Endcapped Endcapped | Yes | |
| 12 | USP Classification | L1 | |
| 13 | Separation Mode | Reverse phase | |
| 14 | P ^H Range | 1-12 | |
| 15 | Maximum Pressure | 6000 psi (415 Bar) | |
| 16 | | 125 °A | |
| 17 | Pore Size | 123 11 | |

- 43'-N-demethyl-3'-N- formylazithromycin,
- 514-demethyl-14-(hydroxymethyl)azithromycin,
- 613-O-decladinosylazithromycin,
- ?3'-N-demethyluzithromycin,
- 83"-O-demethylazithromycin,
- 93'-de(dimethylamino)-3'-oxoazithromycin,
- 103'-N-[[4-(acetylamino)phenyl]sulfonyl]-3'-N-demethylazithromycin,
- 116-demethylazithromycin,
- 122-desethyl-2-propylazithromycin,
- 13'-N-demethyl-3'-N-[(4-methylphenyl)sulfonyl]azithromycin,
- 143-deoxyazithromycin.

Inject reference solution (b). The chromatogram obtained shows peaks corresponding to azithromycin and azithromycin impurity A. The test is not valid unless the resolution between these two peaks is at least 7.0.

Inject reference solution (a) and the test solution. In the chromatogram obtained with the test solution, the area of any secondary peak eluting with an relative retention time of about 1.3 due to 3-deoxyazithromycin (azithromycin impurity B) is not more than twice the area of principal peak in the chromatogram obtained with reference solution (a) (2.0 per cent). The sum of the areas of all the other secondary peaks is not more than 3 times the area of the principal peak in the chromatogram obtained with reference solution (a) (3.0 per cent). Ignore any peak with an area less than 0.1 times the area of the principal peak in the chromatogram obtained with reference solution (a) (0.1 per cent); ignore the peaks eluting before azithromycin impurity L and after azithromycin impurity B. A ROYAL ON NO. WARRY

Other tests. Comply with the tests stated under Oral Liquids.

Assay. Determine by liquid chromatography (2.4.14).

Solvent mixture. 40 volumes of acetonitrile and 60 volumes of water. d'ann a didina

Test solution. Weigh a quantity of the oral suspension containing about 0.1 g of Azithromycin, dissolve in the solvent mixture, dilute to 100.0 ml with the solvent mixture and filter.

Reference solution (a). A 0.1 per cent w/v solution of azithromycin IPRS in the solvent mixture.

Reference solution (b). A solution containing 0.01 per cent w/v of azithromycin IPRS and 6-demethyl-azithromycin IPRS (azithromycin impurity A IPRS) in the solvent mixture.

Chromatographic system

- he diment communities. a stainless steel column 25 cm x 4.6 mm, packed with end capped polar embedded octadecylsilyl amorphous organosilica polymer (5μm) (Such as Waters Xterra),
- column temperature: 70°,
- เมลิสาระจัง " สา เมลิสาร์เลย" mobile phase: a mixture of 10 volumes of a 3.484 per cent w/v solution of dipotassium hydrogen phosphate,

- previously adjusted to pH 6.5 with orthophosphoric acid, 35 volumes of acetonitrile and 55 volumes of water,
- flow rate: 1 ml per minute,
- spectrophotometer set at 215 nm,
- injection volume: 100 µ1.

Inject reference solution (b). The chromatogram obtained shows peaks corresponding to azithromeyin and azithromycin impurity A. The test is not valid unless the resolution between these two peaks is at least 7.0.

Inject reference solution (a) and the test solution.

Determine the weight per ml (2.4.29) of the suspension and calculate the content of C₃₈H₇₂N₂O₁₂, weight in volume.

Repeat the procedure using a portion of the constituted suspension that has been stored at the temperature and for the period stated on the label.

Azithromycin Tablets

Azithromycin Tablets contain not less than 90.0 per cent and not more than 110.0 per cent of the stated amount of azithromycin, C38H72N2O12.

Usual strengths. 250 mg; 500 mg.

Identification

In the Assay, the retention time of the principal peak in the chromatogram obtained with the test solution corresponds to the peak in the chromatogram obtained with the reference solution.

Tests

Dissolution (2.5.2).

Apparatus No. 2 (Paddle),

Medium. 900 ml of a buffer solution prepared by adding to 6 litres of 0.1 M dibasic sodium phosphale about 40 ml of hydrochloric acid, adjusted to pH 6.0, adding 600 mg of trypsin, and mixing.

Speed and time. 100 rpm and 45 minutes.

Withdraw a suitable volume of the medium and filter.

Determine by liquid chromatography (2.4.14) as described under Assay using the following solutions.

Test solution. Use the filtrate, dilute if necessary, with the mobile phase. The second secon

Reference solution. A solution of azithromycin IPRS in the dissolution medium suitably diluted with the mobile phase to obtain a solution having the same concentration as that of the test solution.

Inject the reference solution and the test solution.

Calculate the content of $C_{38}H_{72}N_2O_{12}$ in the medium.

Q. Not less than 75 per cent of the stated amount of $C_{38}H_{72}N_2O_{12}$.

Related substances. Determine by liquid chromatography (2.4.14).

NOTE - Prepare the solutions immediately before use.

Solvent mixture. Prepare a 0.173 per cent w/v solution of ammonium dihydrogen phosphate with the pH adjusted to 10.0 with strong ammonia solution. Transfer 350 ml of the solution add 300 ml of acetonitrile and 350 ml of methanol. Mix well.

Test solution. Weigh and powder 20 tablets. Disperse a quantity of the powder containing about 0.2 g of Azithromycin, dissolve in the solvent mixture by shaking mechanically, dilute to 25.0 ml with the solvent mixture and filter.

Reference solution (a). A 0.008 per cent w/v solution of azithromycin IPRS in the solvent mixture.

Reference solution (b). A solution containing 0.01 per cent w/v of azithromycin IPRS and azithromycin impurity A IPRS in the solvent mixture.

Chromatographic system

- a stainless steel column 25 cm x 4.6 mm, packed with end-cappped octadecylsilyl amorphous organosilica polymer for mass spectrometry (5 μm) (Such as Waters Xterra),
- column temperature: 60°,
- mobile phase: A. a 0.18 per cent w/v solution of anhydrous disodium hydrogen phosphate, adjusted to pH 8.9 with dilute orthophosphoric acid or with dilute sodium hydroxide solution,
 - B. a mixture of 25 volumes of *methanol* and 75 volumes of *acetonitrile*,
- a gradient programme using the conditions given below,
- flow rate: 1 ml per minute,
- spectrophotometer set at 210 nm,
- injection volume: 50 μl.

| Time (in min.) | Mobile phase A (per cent v/v) | Mobile Phase B (per cent v/v) |
|-------------------|-------------------------------|----------------------------------|
| 0 | 50 | 50 |
| 25 | 45 | 55 |
| 30 | 40 | 60 |
| 80 | 25 | 75 |
| 81 | 50 | 50 |
| 93 | 50 | 50 |

| Name | Relative retention time | Correction factor |
|---------------------------------------|-------------------------|-----------------------|
| Azithromycin impurity L ¹ | 0.29 | 2.3 |
| Azithromycin impurity M ² | 0.37 | 0.6 |
| Azithromycin impurity E ³ | 0.43 | |
| Azithromycin impurity F ⁴ | 0.51 | 0.3 |
| Azithromycin impurity D5 | 0.54 | |
| Azithromycin impurity J ⁶ | 0.54 | A 15 1 3 |
| Azithromycin impurity I ⁷ | 0.61 | 10 |
| Azithromycin impurity C8 | 0.73 | |
| Azithromycin impurity No | 0.76 | 0.7 |
| Azithromycin impurity H ¹⁰ | 0.79 | 0.1 |
| Azithromycin impurity A!! | 0.83 | ind a |
| Azithromycin impurity P | 0.92 | Approximately |
| Azithromycin (Retention tim | | F 7 8 25 1 |
| about 45-50 minutes) | 1.0 | na di te y |
| Azithromycin impurity O12 | 1.23 | S una |
| Azithromycin impurity G13 | 1.26 | 0.2 |
| Azithromycin impurity B14 | 1.31 | 2 |

'azithromycin 3'-N-oxide,

²3'-(N,N-didemethyl)-3'-N-formylazithromycin,

^Jaminoazithromycin,

43'-N-demethyl-3'-N- formylazithromycin,

514-demethyl-14- (hydroxymethyl)azithromycin,

613-O-decladinosylazithromycin,

⁷3'-N-demethylazithromycin,

83"-O-demethylazithromycin,

93'-de(dimethylamino)-3'-oxoazithromycin,

103'-N-[[4-(acetylamino)phenyl]sulfonyl]-3'-N-demethylazithromycin,

116-demethylazithromycin,

122-desethyl-2-propylazithromycin,

133'-N-demethyl-3'-N-[(4-methylphenyl)sulfonyl]azithromycin,

143-deoxyazithromycin.

Inject reference solution (b). The chromatogram obtained shows peaks corresponding to azithromycin and azithromycin impurity A. The test is not valid unless the resolution between these two peaks is at least 7.0

Inject reference solution (a) and the test solution. In the chromatogram obtained with the test solution, the area of any secondary peak eluting with an relative retention time of about 1.3 due to azithromycin impurity B is not more than twice the area of principal peak in the chromatogram obtained with reference solution (a) (2.0 per cent). The sum of the areas of all the other secondary peaks is not more than 3 times the area of the principal peak in the chromatogram obtained with reference solution (a) (3.0 per cent). Ignore any peak with

an area less than 0.1 times the area of the principal peak in the chromatogram obtained with reference solution (a) (0.1 per cent); ignore the peaks eluting before azithromycin impurity L and after azithromycin impurity B.

Other tests. Comply with the tests stated under Tablets.

Assay. Determine by liquid chromatography (2.4.14).

Solvent mixture. 40 volumes of acetonitrile and 60 volumes of water.

Test solution. Weigh and powder 20 tablets. Disperse a quantity of the powder containing 0.1 g of azithromycin, dissolve in the solvent mixture by shaking mechanically, dilute to 100 ml i jamenta k with the solvent mixture and filter.

Reference solution (a). A 0.1 per cent w/v solution of azithromycin IPRS in the solvent mixture.

Reference solution (b). A solution containing 0.01 per cent w/v of azithromycin IPRS and azithromycin impurity A IPRS in the solvent mixture.

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Chromatographic system

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- mobile phase: a mixture of 10 volumes of a 3.484 per cent w/v solution of dipotassium hydrogen phosphate. adjusted to pH 6.5 with orthophosphoric acid, 35 volumes of acetonitrile and 55 volumes of water,
- flow rate: 1 ml per minute,
- spectrophotometer set at 215 nm,
- injection volume: 100 µl.

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Inject reference solution (a) and the test solution.

Calculate the content of C38H72N2O12 in the tablets.

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