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Azithromycin for Injection

DEFINITION

Azithromycin for Injection is a sterile, dry mixture of azithromycin and a suitable stabilizing agent. It contains NLT 90.0% and NMT 110.0% of the labeled amount of azithromycin ($C_{38}H_{72}N_2O_{12}$).

IDENTIFICATION

- **A.** The retention time of the major peak of the *Sample solution* corresponds to that of the *Standard solution*, as obtained in the Assay.
- **B. SPECTROSCOPIC IDENTIFICATION TESTS (197), Infrared Spectroscopy: 197A**
 - Standard:** 25 mg/mL of [USP Azithromycin RS](#) in [acetonitrile](#). Pass the solution through a suitable filter, and remove the solvent by natural evaporation.
 - Sample:** Equivalent to 25 mg/mL of azithromycin from Azithromycin for Injection in [acetonitrile](#). Pass the solution through a suitable filter, and remove the solvent by natural evaporation.
 - Analysis:** Examine the spectra of the *Standard* and the *Sample* in the range between 3800 and 650 cm^{-1} .
 - Acceptance criteria:** The *Sample* exhibits bands at about 900, 995, 1165, 1376, 1456, 1725, and 2936 cm^{-1} similar to the spectrum from the *Standard* similarly obtained.

ASSAY

PROCEDURE

Buffer: 6.7 mg/mL of [dibasic potassium phosphate](#) in [water](#)

Mobile phase: [Acetonitrile](#) and *Buffer* (52:48). Adjust with 10 N [potassium hydroxide](#) to a pH of 11.0 ± 0.1.

Diluent: [Acetonitrile](#) and [water](#) (52:48)

System suitability solution: 1 mg/mL each of [USP Azaerythromycin A RS](#) and [USP Azithromycin RS](#) in a mixture of [acetonitrile](#) and [water](#) (52:48). Dissolve first in [acetonitrile](#), and then dilute with [water](#) to volume.

Standard solution: 1 mg/mL of [USP Azithromycin RS](#) in a mixture of [acetonitrile](#) and [water](#) (52:48). Dissolve first in [acetonitrile](#), and dilute with [water](#) to volume.

Sample solution: Nominally equivalent to 1 mg/mL of azithromycin from Azithromycin for Injection in *Diluent* prepared as follows. Reconstitute 3 vials individually as directed in the labeling. Mix the contents of all the reconstituted vials. Dilute a portion of the mixture with *Diluent*.

Chromatographic system

(See [Chromatography \(621\), System Suitability](#).)

Mode: LC

Detector: UV 215 nm

Columns

Guard: 4.6-mm × 1-cm; 5-μm packing [L67](#)

Analytical: 4.6-mm × 15-cm; 5-μm packing [L67](#)

Temperatures

Autosampler: 15°

Column: 40°

Flow rate: 1 mL/min

Injection volume: 15 μL

System suitability

Samples: *System suitability solution* and *Standard solution*

[NOTE—The relative retention times for azaerythromycin A and azithromycin are 0.68 and 1.0, respectively.]

Suitability requirements

Resolution: NLT 2.5 between azaerythromycin A and azithromycin, *System suitability solution*

Tailing factor: NLT 0.9 and NMT 1.5, *Standard solution*

Relative standard deviation: NMT 2%, *Standard solution*

Analysis

Samples: *Standard solution* and *Sample solution*

Calculate the percentage of the labeled amount of azithromycin ($C_{38}H_{72}N_2O_{12}$) in the portion of Azithromycin for Injection taken:

$$\text{Result} = (r_U/r_S) \times (C_S/C_U) \times P \times F \times 100$$

r_U = peak response from the *Sample solution*

r_S = peak response from the *Standard solution*

C_S = concentration of [USP Azithromycin RS](#) in the *Standard solution* (mg/mL)

C_U = nominal concentration of azithromycin in the *Sample solution* (mg/mL)

P = potency of [USP Azithromycin RS](#) (µg/mg)

F = conversion factor, 0.001 mg/µg

Acceptance criteria: 90.0%–110.0%

PERFORMANCE TESTS

- [UNIFORMITY OF DOSAGE UNITS \(905\)](#): Meets the requirements

IMPURITIES

[NOTE—The test for *Limit of Azithromycin N-Oxide, Desosaminylazithromycin, and N-Demethylazithromycin* does not quantify aminoazithromycin, formamido analog, methylformamido analog, and 3'-de(dimethylamino)-3'-oxoazithromycin. If these impurities are part of the impurity profile, the *Limit of Aminoazithromycin, Formamido Analog, Methylformamido Analog, and 3'-De(dimethylamino)-3'-oxoazithromycin* test is recommended in addition to the test for *Limit of Azithromycin N-Oxide, Desosaminylazithromycin, and N-Demethylazithromycin*.]

- **LIMIT OF AZITHROMYCIN N-OXIDE, DESOSAMINYLAZITHROMYCIN, AND N-DEMETHYLAZITHROMYCIN**

Buffer: 3.5 g/L of [dibasic potassium phosphate](#)

Mobile phase: [Acetonitrile](#) and *Buffer* (23:77). Adjust with 5 N [potassium hydroxide](#) to a pH of 10.55 ± 0.05.

Standard stock solution: 0.05 mg/mL of [USP Azithromycin N-oxide RS](#), 45 µg/mL of [USP Desosaminylazithromycin RS](#), and 160 µg/mL each of [USP N-Demethylazithromycin RS](#) and [USP Azithromycin RS](#) in [acetonitrile](#). Sonicate if necessary to dissolve.

Standard solution: 0.001 mg/mL of azithromycin *N-oxide*, 0.9 µg/mL of desosaminylazithromycin, and 3.2 µg/mL each of *N-demethylazithromycin* and azithromycin from *Standard stock solution* in *Mobile phase*

Sample solution: Nominally equivalent to 0.3 mg/mL of azithromycin in *Mobile phase* from Azithromycin for Injection

Chromatographic system

(See [Chromatography \(621\), System Suitability](#).)

Mode: LC

Detector: Amperometric electrochemical

Electrodes: Dual series glassy carbon

Mode: Oxidative screen

Electrode 1: +0.70 ± 0.05 V

Electrode 2: +0.82 ± 0.05 V

Column: 4.6-mm × 15-cm; 3-µm packing [L49](#)

Autosampler temperature: 5°

Flow rate: 1 mL/min

Injection volume: 50 µL

System suitability

Sample: *Standard solution*

[NOTE—See [Table 1](#) for relative retention times.]

Suitability requirements

Tailing factor: NMT 2.0 for azithromycin and NMT 2.6 for *N-demethylazithromycin*

Relative standard deviation: NMT 10.0% for azithromycin *N-oxide*, desosaminylazithromycin, *N-demethylazithromycin*, and azithromycin

Analysis

Samples: *Standard solution* and *Sample solution*

Calculate the percentage of each specified impurity in the portion of Azithromycin for Injection taken:

$$\text{Result} = (r_U/r_S) \times (C_S/C_U) \times P \times 100$$

r_U = peak response of each specified impurity from the *Sample solution*

r_S = peak response of each specified impurity from the *Standard solution*

C_S = concentration of the relevant impurity Reference Standard in the *Standard solution* (mg/mL)

C_U = nominal concentration of azithromycin in the *Sample solution* (mg/mL)

P = potency of the relevant Reference Standard (mg/mg)

Acceptance criteria: See [Table 1](#). The reporting threshold is 0.05%.

Table 1

Name	Relative Retention Time	Acceptance Criteria, NMT (%)
Azithromycin <i>N</i> -oxide ^a	0.17	1.0
Desosaminylazithromycin ^b	0.27	0.3
Erythromycin A oxime ^{c,d}	0.35	—
<i>N</i> -Demethylazithromycin ^e	0.50	1.0
Azaerythromycin A ^{c,f}	0.85	—
Azithromycin	1.00	—

^a (2*R*,3*S*,4*R*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*)-13-[(2,6-Dideoxy-3-*C*-methyl-3-*O*-methyl- α -*L*-ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3,4,6-trideoxy-3-(dimethylazinoyl)- β -*D*-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.

^b (2*R*,3*S*,4*R*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*)-2-Ethyl-3,4,10,13-tetrahydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3,4,6-trideoxy-3-dimethylamino- β -*D*-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.

^c Process impurities that are controlled in the drug substance are not to be reported. They are listed here for information only.

^d (3*R*,4*S*,5*S*,6*R*,7*R*,9*R*,11*S*,12*R*,13*S*,14*R*,*E*)-6-[[3,4,6-Trideoxy-3-(dimethylamino)- β -*D*-xylo-hexopyranosyl]oxy]-14-ethyl-7,12,13-trihydroxy-4-[(2,6-dideoxy-3-*C*-methyl-3-*O*-methyl- α -*L*-ribo-hexopyranosyl)oxy]-10-(hydroxyimino)-3,5,7,9,11,13-hexamethyloxacyclotetradecan-2-one.

^e (2*R*,3*S*,4*R*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*)-13-[(2,6-Dideoxy-3-*C*-methyl-3-*O*-methyl- α -*L*-ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3,4,6-trideoxy-3-methylamino- β -*D*-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.

^f 9-Deoxo-9a-aza-9a-homoerythromycin A.

Change to read:

- LIMIT OF AMINOAZITHROMYCIN, FORMAMIDO ANALOG, METHYLFORMAMIDO ANALOG, AND 3'-DE(DIMETHYLAMINO)-3'-OXOAZITHROMYCIN (if present)

Buffer: 3.5 g/L of [dibasic potassium phosphate](#) in [water](#)

Mobile phase: [Acetonitrile](#) and *Buffer* (46:54). Adjust with 10 N [potassium hydroxide](#) to a pH of 11.0 $\pm$ 0.1.

Diluent: [Acetonitrile](#) and [water](#) (46:54)

Standard stock solution: 0.09 mg/mL of [USP Desosaminylazithromycin RS](#), 0.21 mg/mL of [USP N-Demethylazithromycin RS](#), and 0.30 mg/mL of [USP Azithromycin RS](#) in [acetonitrile](#)

Standard solution: 0.0018 mg/mL of desosaminylazithromycin, 0.0042 mg/mL of *N*-demethylazithromycin, and 0.006 mg/mL of azithromycin in *Diluent*

Sample solution: Nominally equivalent to 0.6 mg/mL of azithromycin from Azithromycin for Injection in *Diluent*. Reconstitute 3 vials individually, as directed in the labeling. Mix the contents of all the reconstituted vials. Dilute a portion of the mixture with *Diluent*. The *Sample solution* must be injected immediately after preparation.

Blank: Use the *Diluent*.

Chromatographic system

(See [Chromatography \(621\)](#), [System Suitability](#).)

Mode: LC

Detector: Amperometric electrochemical

Electrodes: Dual series glassy carbon

Mode: Oxidative screen

Electrode 1: +0.70 $\pm$ 0.05 V

Electrode 2: +0.82 $\pm$ 0.05 V

Columns

Guard: 4.6-mm $\times$ 1-cm; 5- μ m packing [L67](#)

Analytical: 4.6-mm $\times$ 25-cm; 5- μ m packing [L67](#)

Temperatures

Autosampler: 15°

Column: 40°

Flow rate: 1 mL/min

Injection volume: 25 μ L

System suitability**Sample:** *Standard solution*[NOTE—See [Table 2](#) for relative retention times.]**Suitability requirements****Resolution:** NLT 1.5 between desosaminylazithromycin and *N*-demethylazithromycin**Tailing factor:** NMT 1.5 for azithromycin**Relative standard deviation:** NMT 5% for azithromycin**Analysis****Samples:** *Standard solution*, *Sample solution*, and *Blank*Disregard any peaks corresponding to those obtained from the *Blank*.

Calculate the percentage of each impurity in the portion of Azithromycin for Injection taken:

$$\text{Result} = (r_U/r_S) \times (C_S/C_U) \times P \times F \times 100$$

 r_U = peak response of each impurity from the *Sample solution* r_S = peak response of azithromycin from the *Standard solution* C_S = concentration of [USP Azithromycin RS](#) in the *Standard solution* (mg/mL) C_U = nominal concentration of azithromycin in the *Sample solution* (mg/mL) P = potency of [USP Azithromycin RS](#) (µg/mg) F = conversion factor, 0.001 mg/µg**Acceptance criteria:** See [Table 2](#).**Table 2**

Name	Relative Retention Time	Acceptance Criteria, NMT (%)
Erythromycin A iminoether ^{a,b}	0.20	—
3'-(<i>N,N</i> -Didemethyl)azithromycin (aminoazithromycin) ^c + 3'-(<i>N,N</i> -didemethyl)-3'- <i>N</i> -formylazithromycin (formamido analog) ^d	0.25	1.0
Azithromycin F ^{a,e}	0.30	—
Desosaminylazithromycin ^{f,g}	0.31	—
3'- <i>N</i> -Demethyl-3'- <i>N</i> -formylazithromycin (methylformamido analog) ^h	0.32	1.0
<i>N</i> -Demethylazithromycin ^{f,i}	0.35	—
Erythromycin A oxime ^{a,j}	0.42	—
Azaerythromycin A ^{a,k}	0.63	—
3'-De(dimethylamino)-3'-oxoazithromycin ^l	0.72	1.0
3'- <i>N</i> -Demethyl-3'- <i>N</i> -[(4-methylphenyl)sulfonyl]azithromycin ^{a,m}	0.85	—
Azithromycin	1.00	—

Name	Relative Retention Time	Acceptance Criteria, NMT (%)
Azithromycin B (3-deoxyazithromycin) ^{a,n}	1.64	—
Any other unspecified impurity	—	0.2
Total impurities ^o	—	3.0

^a Process impurities that are controlled in the drug substance are not to be reported. They are listed here for information only.

^b (3*R*,4*R*,5*S*,6*R*,9*R*,10*S*,11*S*,12*R*,13*S*,15*R*,Z)-12-[[3,4,6-Trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl]oxy]-6-ethyl-4,5-dihydroxy-10-[(2,6-dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-3,5,9,11,13,15-hexamethyl-7,16-dioxo-2-azabicyclo[11.2.1]hexadec-1-en-8-one.

^c (2*R*,3*S*,4*R*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*)-13-[(2,6-Dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3-amino-3,4,6-trideoxy-β-D-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.

^d (2*R*,3*S*,4*R*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*)-13-[(2,6-Dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3-formamido-3,4,6-trideoxy-β-D-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.

^e (2*R*,3*S*,4*R*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*)-13-[(2,6-Dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12-hexamethyl-14-hydroxymethyl-11-[[3-dimethylamino-3,4,6-trideoxy-β-D-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.

^f These impurities are controlled using the *Limit of Azithromycin N-Oxide, Desosamylazithromycin, and N-Demethylazithromycin* test. They are listed here for information only.

^g (2*R*,3*S*,4*R*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*)-2-Ethyl-3,4,10,13-tetrahydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3,4,6-trideoxy-3-dimethylamino-β-D-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.

^h (2*R*,3*S*,4*R*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*)-13-[(2,6-Dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3-(*N*-methyl)formamido-3,4,6-trideoxy-β-D-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.

ⁱ (2*R*,3*S*,4*R*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*)-13-[(2,6-Dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3,4,6-trideoxy-3-methylamino-β-D-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.

^j (3*R*,4*S*,5*S*,6*R*,7*R*,9*R*,11*S*,12*R*,13*S*,14*R*,E)-6-[[3,4,6-Trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl]oxy]-14-ethyl-7,12,13-trihydroxy-4-[(2,6-dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-10-(hydroxyimino)-3,5,7,9,11,13-hexamethyloxacyclotetradecan-2-one.

^k 9-Deoxo-9a-aza-9a-homoerythromycin A.

^l (2*R*,3*S*,4*R*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*)-13-[(2,6-Dideoxy-3,3-dimethyl-α-L-ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3,4,6-trideoxy-3-oxo-β-D-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.

^m ▲(2*R*,3*S*,4*R*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*)-13-[(2,6-Dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3-[*N*-(4-methylphenylsulfonyl)-*N*-methylamino]-3,4,6-trideoxy-β-D-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one. ▲ (ERR 1-Aug-2023)

ⁿ (2*R*,3*R*,4*S*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*)-13-[(2,6-Dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-2-ethyl-4,10-dihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3,4,6-trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.

^o Total impurities include desosamylazithromycin and *N*-demethylazithromycin.

SPECIFIC TESTS

- **BACTERIAL ENDOTOXINS TEST (85):** Meets the requirements
- **STERILITY TESTS (71):** Meets the requirements
- **PARTICULATE MATTER IN INJECTIONS (788):** Meets the requirements
- **pH (791):** 6.4–6.8, determined in a solution constituted as directed in the labeling
- **WATER DETERMINATION (921), Method I:** NMT 2.0%
- **OTHER REQUIREMENTS:** It meets the requirements under *Injections and Implanted Drug Products (1)*.

ADDITIONAL REQUIREMENTS

- **PACKAGING AND STORAGE:** Preserve as described under *Packaging and Storage Requirements (659), Injection Packaging, Packaging for Constitution*. Store at controlled room temperature.
- **LABELING:** It meets the requirements for *Labeling (7), Labels and Labeling for Injectable Products*.

Change to read:

- **USP REFERENCE STANDARDS (11):**
USP Azaerythromycin A RS
9-Deoxo-9a-aza-9a-homoerythromycin A.

$C_{37}H_{70}N_2O_{12}$ USP Azithromycin RS USP Azithromycin N-oxide RS (2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i> ,5 <i>R</i> ,8 <i>R</i> ,10 <i>R</i> ,11 <i>R</i> ,12 <i>S</i> ,13 <i>S</i> ,14 <i>R</i>)-13-[(2,6-Dideoxy-3- <i>C</i> -methyl-3- <i>O</i> -methyl- α - <i>L</i> -ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3,4,6-trideoxy-3-(dimethylazinoyl)- β - <i>D</i> -xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.	$\blacktriangle$ 734.97 $\blacktriangle$ (ERR 1-Aug-2023)
$C_{38}H_{72}N_2O_{13}$ USP N-Demethylazithromycin RS (2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i> ,5 <i>R</i> ,8 <i>R</i> ,10 <i>R</i> ,11 <i>R</i> ,12 <i>S</i> ,13 <i>S</i> ,14 <i>R</i>)-13-[(2,6-Dideoxy-3- <i>C</i> -methyl-3- <i>O</i> -methyl- α - <i>L</i> -ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3,4,6-trideoxy-3-methylamino- β - <i>D</i> -xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.	$\blacktriangle$ 765.00 $\blacktriangle$ (ERR 1-Aug-2023)
$C_{37}H_{70}N_2O_{12}$ USP Desosaminylazithromycin RS (2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i> ,5 <i>R</i> ,8 <i>R</i> ,10 <i>R</i> ,11 <i>R</i> ,12 <i>S</i> ,13 <i>S</i> ,14 <i>R</i>)-2-Ethyl-3,4,10,13-tetrahydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3,4,6-trideoxy-3-dimethylamino- β - <i>D</i> -xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadecan-15-one.	$\blacktriangle$ 734.97 $\blacktriangle$ (ERR 1-Aug-2023)
$C_{30}H_{58}N_2O_9$	$\blacktriangle$ 590.80 $\blacktriangle$ (ERR 1-Aug-2023)

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
AZITHROMYCIN FOR INJECTION	Documentary Standards Support	SM12020 Small Molecules 1

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

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