Status: Currently Official on 16-Feb-2025
Official Date: Official as of 01-Dec-2020
Document Type: USP Monographs
DocId: GUID-28BAF205-CE48-4560-8D78-F368969563E6_7_en-US
DOI: https://doi.org/10.31003/USPNF_M5502_07_01
DOI Ref: tk61g

Telmisartan and Amlodipine Tablets

DEFINITION

Telmisartan and Amlodipine Tablets contain NLT 90.0% and NMT 110.0% of the labeled amount each of telmisartan ($C_{33}H_{30}N_4O_2$) and amlodipine ($C_{20}H_{25}ClN_2O_5$).

IDENTIFICATION

- **A.** The retention times of the two major peaks of the *Sample solution* correspond to those of the *Standard solution*, as obtained in the *Assay*.
- **B.** The UV spectra of the two major peaks of the *Sample solution* correspond to those of the *Standard solution*, as obtained in the *Assay*.

ASSAY

Change to read:

- **Procedure**

Buffer: 0.022 M monobasic sodium phosphate dihydrate and 2 mL of triethylamine in 1 L of water. Adjust with phosphoric acid to a pH of 6.0.

Mobile phase: Acetonitrile and *Buffer* (40:60)

Diluent: Add 5 mL of triethylamine to 500 mL of water. Add 500 mL of acetonitrile and mix.

Standard stock solution 1: 0.4 mg/mL of USP Telmisartan RS in *Diluent*

Standard stock solution 2: 0.4 mg/mL of USP Amlodipine Besylate RS in *Diluent*

Standard solution: ▲Prepare the following solutions of USP Telmisartan RS and USP Amlodipine Besylate RS in *Diluent* at the concentrations shown in *Table 1*. Transfer a suitable volume of *Standard stock solution 1* and *Standard stock solution 2* into a suitable volumetric flask. Dilute with *Diluent* to volume.

Table 1

Tablet Strength Telmisartan/Amlodipine (mg/mg)	Concentration of Telmisartan (mg/mL)	Concentration of Amlodipine Besylate (mg/mL)
40/5	0.08	0.14
40/10	0.08	0.28
80/5	0.16	0.14
80/10	0.08	0.14▲ (USP 1-Dec-2020)

Sample solution: ▲Transfer Tablets (NLT 10) to a suitable volumetric flask. Add acetonitrile to about 20% of the volume of the flask, and sonicate for 5 min with intermittent shaking. Add *Diluent* to about 80% of the flask volume and sonicate until the Tablets are completely dispersed. Dilute with *Diluent* to volume. Centrifuge and use the supernatant. Dilute with *Diluent*, if necessary, to obtain the solutions of nominal concentrations of telmisartan and amlodipine stated in *Table 1*. Pass a portion of the solution under test through a suitable filter of 0.45-µm pore size.▲ (USP 1-Dec-2020)

Chromatographic system

(See *Chromatography ⟨621⟩, System Suitability*.)

Mode: LC

Detector: UV 257 nm. For *Identification B*, use a diode array detector in the range of 200–350 nm.

Column: 4.6–mm × 25–cm; 5–µm packing L1

Temperatures

Autosampler: 10°

Column: 30°

Flow rate: 1 mL/min

Injection volume: 20 µL

Run time: ▲NLT 1.5 times the retention time of telmisartan▲ (USP 1-Dec-2020)

System suitability

Sample: *Standard solution*

[NOTE—The relative retention times for amlodipine and telmisartan are 0.5 and 1.0, respectively.]

Suitability requirements

Tailing factor: NMT 2.0 for telmisartan; NMT 2.5 for amlodipine

Relative standard deviation: NMT 2.0% for telmisartan and amlodipine

Analysis

Samples: *Standard solution* and *Sample solution*

Calculate the percentage of the labeled amount of telmisartan ($C_{33}H_{30}N_4O_2$) in the portion of Tablets taken:

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

r_U = peak response of telmisartan from the *Sample solution*

r_S = peak response of telmisartan from the *Standard solution*

C_S = concentration of USP Telmisartan RS in the *Standard solution* (mg/mL)

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

Calculate the percentage of the labeled amount of amlodipine ($C_{20}H_{25}ClN_2O_5$) in the portion of Tablets taken:

$$\text{Result} = (r_U/r_S) \times (C_S/C_U) \times (M_{r1}/M_{r2}) \times 100$$

r_U = peak response of amlodipine from the *Sample solution*

r_S = peak response of amlodipine from the *Standard solution*

C_S = concentration of USP Amlodipine Besylate RS in the *Standard solution* (mg/mL)

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

M_{r1} = molecular weight of amlodipine, 408.88

M_{r2} = molecular weight of amlodipine besylate, 567.05

Acceptance criteria: 90.0%–110.0% each of telmisartan and amlodipine

PERFORMANCE TESTS

Change to read:

• **DISSOLUTION** ⟨711⟩

Test 1

Test for telmisartan

Medium: pH 7.5 phosphate buffer (0.05 M monobasic potassium phosphate and 0.038 M sodium hydroxide in 1 L of water; adjusted with diluted sodium hydroxide solution to a pH of 7.5); 900 mL

Apparatus 2: 75 rpm

Time: 20 min

Buffer, Mobile phase, and **Diluent:** Prepare as directed in the *Assay*.

Standard stock solution: 0.9 mg/mL of USP Telmisartan RS in *Diluent*. [NOTE—Sonication may be required to aid dissolution.]

Standard solution

▲**For Tablets labeled to contain 80 mg of telmisartan:** 0.09 mg/mL of USP Telmisartan RS in *Medium* from the *Standard stock solution*

For Tablets labeled to contain 40 mg of telmisartan: 0.045 mg/mL of USP Telmisartan RS in *Medium* from the *Standard stock solution*▲ (USP 1-Dec-2020)

Sample solution: Pass a portion of the solution under test through a suitable filter of suitable pore size.

Chromatographic system

(See *Chromatography ⟨621⟩, System Suitability*.)

Mode: LC

Detector: UV 257 nm

Column: 4.6-mm × 15-cm; 5-µm packing L1

Temperatures

Autosampler: 10°

Column: 30°

Flow rate: 1 mL/min

Injection volume: 20 µL

Run time: ▲NLT 1.5 times the retention time of telmisartan▲ (USP 1-Dec-2020)

System suitability

Sample: *Standard solution*

Suitability requirements

Tailing factor: NMT 2.0

Relative standard deviation: NMT 2.0%

Analysis

Samples: *Standard solution* and *Sample solution*

▲[NOTE—The relative retention times for amlodipine and telmisartan are 0.5 and 1.0, respectively.]▲ (USP 1-DEC-2020)

Calculate the percentage of the labeled amount of telmisartan ($C_{33}H_{30}N_4O_2$) dissolved:

$$\text{Result} = (r_U/r_S) \times (C_S \times D) \times V \times (1/L) \times 100$$

r_U = peak response of telmisartan from the *Sample solution*

r_S = peak response of telmisartan from the *Standard solution*

C_S = concentration of USP Telmisartan RS in the *Standard solution* (mg/mL)

D = dilution factor for the *Sample solution*, if needed

V = volume of *Medium*, 900 mL

L = label claim of telmisartan (mg/Tablet)

Test for amlodipine

Medium: 0.01 N hydrochloric acid; 500 mL

Apparatus 2: 75 rpm

Time: 20 min

Mobile phase and **Chromatographic system:** Proceed as directed in *Test 1, Test for telmisartan*.

Standard stock solution: 0.7 mg/mL of USP Amlodipine Besylate RS in *Medium*. [NOTE—Sonication may be required to aid dissolution.]

Standard solution

▲**For Tablets labeled to contain 10 mg of amlodipine:** 0.028 mg/mL of USP Amlodipine Besylate RS in *Medium* from the *Standard stock solution*

For Tablets labeled to contain 5 mg of amlodipine: 0.014 mg/mL of USP Amlodipine Besylate RS in *Medium* from the *Standard stock solution*▲ (USP 1-Dec-2020)

Sample solution: Pass a portion of the solution under test through a suitable filter of suitable pore size.

System suitability

Sample: *Standard solution*

Suitability requirements

Tailing factor: NMT 2.5

Relative standard deviation: NMT 2.0%

Analysis

Samples: *Standard solution* and *Sample solution*

Calculate the percentage of the labeled amount of amlodipine ($C_{20}H_{25}ClN_2O_5$) dissolved:

$$\text{Result} = (r_U/r_S) \times (C_S \times D) \times V \times (1/L) \times (M_{r1}/M_{r2}) \times 100$$

r_U = peak response of amlodipine from the *Sample solution*

r_S = peak response of amlodipine from the *Standard solution*

C_S = concentration of USP Amlodipine Besylate RS in the *Standard solution* (mg/mL)

D = dilution factor for the *Sample solution*, if needed

V = volume of *Medium*, 500 mL

L = label claim of amlodipine (mg/Tablet)

M_{r1} = molecular weight of amlodipine, 408.88

M_{r2} = molecular weight of amlodipine besylate, 567.05

Tolerances: NLT 80% (Q) of the labeled amount each of telmisartan ($C_{33}H_{30}N_4O_2$) and amlodipine ($C_{20}H_{25}ClN_2O_5$) is dissolved.

Test 2: If the product complies with this test, the labeling indicates that it meets USP *Dissolution Test 2*.

Test for telmisartan

Medium: pH 7.5 phosphate buffer (6.805 g/L of monobasic potassium phosphate and 1.6 g/L of sodium hydroxide in water; adjusted with 5 N sodium hydroxide solution or phosphoric acid to a pH of 7.5); 900 mL

Apparatus 2: 75 rpm

Time: 30 min

Buffer: 1.54 g/L of ammonium acetate in water. Adjust with acetic acid to a pH of 5.0.

Mobile phase: Acetonitrile and *Buffer* (50:50)

Diluent: 0.01 N hydrochloric acid

Standard stock solution: 0.56 mg/mL of USP Telmisartan RS, prepared as follows. Transfer a quantity of USP Telmisartan RS to a suitable volumetric flask. Add 40% of the total volume of both methanol and *Diluent*. Sonicate to dissolve. Dilute with *Diluent* to volume and mix well.

Standard solution

For Tablets labeled to contain 80 mg of telmisartan: 0.09 mg/mL of USP Telmisartan RS in *Medium* from the *Standard stock solution*

For Tablets labeled to contain 40 mg of telmisartan: 0.045 mg/mL of USP Telmisartan RS in *Medium* from the *Standard stock solution*

Sample solution: Pass a portion of the solution under test through a suitable filter of 0.45-µm pore size.

Chromatographic system

(See *Chromatography ⟨621⟩, System Suitability*.)

Mode: LC

Detector: UV 230 nm

Column: 4.6-mm × 15-cm; 5-µm packing L7

Temperatures

Autosampler: 10°

Column: 35°

Flow rate: 1.5 mL/min

Injection volume: 10 µL

Run time: NLT 2 times the retention time of telmisartan

System suitability

Sample: *Standard solution*

Suitability requirements

Tailing factor: NMT 2.0

Relative standard deviation: NMT 2.0%

Analysis

Samples: *Standard solution* and *Sample solution*

[NOTE—The relative retention times for amlodipine and telmisartan are 0.69 and 1.00, respectively.]

Calculate the percentage of the labeled amount of telmisartan ($C_{33}H_{30}N_4O_2$) dissolved:

$$\text{Result} = (r_U/r_S) \times C_S \times V \times (1/L) \times 100$$

r_U = peak response of telmisartan from the *Sample solution*

r_S = peak response of telmisartan from the *Standard solution*

C_S = concentration of USP Telmisartan RS in the *Standard solution* (mg/mL)

V = volume of *Medium*, 900 mL

L = label claim of telmisartan (mg/Tablet)

Test for amlodipine

Medium: 0.01 N hydrochloric acid; 500 mL

Apparatus 2: 75 rpm

Time: 30 min

Buffer: 1.54 g/L of ammonium acetate in water. Adjust with acetic acid to a pH of 5.0.

Mobile phase: Acetonitrile and *Buffer* (40:60)

Standard stock solution: 0.35 mg/mL of USP Amlodipine Besylate RS prepared as follows. Transfer a quantity of USP Amlodipine Besylate RS to a suitable volumetric flask. Add 5% of the total volume of methanol. Sonicate to dissolve. Dilute with water to volume and mix well.

Standard solution

For Tablets labeled to contain 10 mg of amlodipine: 0.028 mg/mL of USP Amlodipine Besylate RS in *Medium* from the *Standard stock solution*

For Tablets labeled to contain 5 mg of amlodipine: 0.014 mg/mL of USP Amlodipine Besylate RS in *Medium* from the *Standard stock solution*

Sample solution: Pass a portion of the solution under test through a suitable filter of 0.45-µm pore size.

Chromatographic system

(See *Chromatography ⟨621⟩, System Suitability*.)

Mode: LC

Detector: UV 238 nm

Column: 4.6-mm × 15-cm; 5-µm packing L7

Temperatures

Autosampler: 10°

Column: 35°

Flow rate: 1.5 mL/min

Injection volume: 40 µL

Run time: NLT 2.5 times the retention time of amlodipine

System suitability

Sample: *Standard solution*

Suitability requirements

Tailing factor: NMT 2.0

Relative standard deviation: NMT 2.0%

Analysis

Samples: *Standard solution* and *Sample solution*

[NOTE—The relative retention times for amlodipine and telmisartan are 1.0 and 1.9, respectively.]

Calculate the percentage of the labeled amount of amlodipine ($C_{20}H_{25}ClN_2O_5$) dissolved:

$$\text{Result} = (r_U/r_S) \times C_S \times V \times (1/L) \times (M_{r1}/M_{r2}) \times 100$$

r_U = peak response of amlodipine from the *Sample solution*

r_S = peak response of amlodipine from the *Standard solution*

C_S = concentration of USP Amlodipine Besylate RS in the *Standard solution* (mg/mL)

V = volume of *Medium*, 500 mL

L = label claim of amlodipine (mg/Tablet)

M_{r1} = molecular weight of amlodipine, 408.88

M_{r2} = molecular weight of amlodipine besylate, 567.05

Tolerances: NLT 80% (Q) of the labeled amount each of telmisartan ($C_{33}H_{30}N_4O_2$) and amlodipine ($C_{20}H_{25}ClN_2O_5$) is dissolved.

Test 3: If the product complies with this test, the labeling indicates that it meets USP *Dissolution Test 3*.

Test for telmisartan

Medium: pH 7.5 phosphate buffer (dissolve 6.8 g of monobasic potassium phosphate in 1000 mL of water; adjusted with sodium hydroxide to a pH of 7.5); 900 mL

Apparatus 2: 75 rpm

Time: 30 min

Buffer: Dissolve 2.72 g of monobasic potassium phosphate in 1000 mL of water. Adjust with phosphoric acid to a pH of 2.4.

Mobile phase: Acetonitrile and *Buffer* (40:60)

Standard stock solution: 0.89 mg/mL of USP Telmisartan RS in methanol. Sonication may be needed to aid dissolution.

Standard solution

For Tablets labeled to contain 80 mg of telmisartan: 0.089 mg/mL of USP Telmisartan RS in *Medium* from the *Standard stock solution*

For Tablets labeled to contain 40 mg of telmisartan: 0.045 mg/mL of USP Telmisartan RS in *Medium* from the *Standard stock solution*

Sample solution: Pass a portion of the solution under test through a suitable filter of 0.45-µm pore size.

Chromatographic system

(See *Chromatography ⟨621⟩, System Suitability*.)

Mode: LC

Detector: UV 237 nm

Column: 4.6-mm × 15-cm; 5-µm packing L1

Flow rate: 1 mL/min

Injection volume: 10 µL

Run time: NLT 2 times the retention time of telmisartan

System suitability

Sample: *Standard solution*

Suitability requirements

Tailing factor: NMT 2.0

Relative standard deviation: NMT 2.0%

Analysis

Samples: *Standard solution* and *Sample solution*

[NOTE—The relative retention times for amlodipine and telmisartan are 0.78 and 1.00, respectively.]

Calculate the percentage of the labeled amount of telmisartan ($C_{33}H_{30}N_4O_2$) dissolved:

$$\text{Result} = (r_U/r_S) \times C_S \times V \times (1/L) \times 100$$

r_U = peak response of telmisartan from the *Sample solution*

r_S = peak response of telmisartan from the *Standard solution*

C_S = concentration of USP Telmisartan RS in the *Standard solution* (mg/mL)

V = volume of *Medium*, 900 mL

L = label claim of telmisartan (mg/Tablet)

Test for amlodipine

Medium: 0.01 N hydrochloric acid; 500 mL

Apparatus 2: 75 rpm

Time: 15 min

Buffer and **Mobile phase:** Prepare as directed in *Test 3, Test for telmisartan*.

Standard stock solution: 0.28 mg/mL of USP Amlodipine Besylate RS prepared as follows. Transfer a quantity of USP Amlodipine Besylate RS to a suitable volumetric flask. Add about 3% of the total volume of methanol. Sonicate to dissolve. Dilute with *Medium* to volume and mix well.

Standard solution

For Tablets labeled to contain 10 mg of amlodipine: 0.028 mg/mL of USP Amlodipine Besylate RS in *Medium* from the *Standard stock solution*

For Tablets labeled to contain 5 mg of amlodipine: 0.014 mg/mL of USP Amlodipine Besylate RS in *Medium* from the *Standard stock solution*

Sample solution: Pass a portion of the solution under test through a suitable filter of 0.45-µm pore size.

Chromatographic system: Proceed as directed in the *Test 3, Test for telmisartan* except for the *Run time*.

Run time: NLT 2 times the retention time of amlodipine

System suitability

Sample: *Standard solution*

Suitability requirements

Tailing factor: NMT 2.0

Relative standard deviation: NMT 2.0%

Analysis

Samples: *Standard solution* and *Sample solution*

[NOTE—The relative retention times for amlodipine and telmisartan are 1.00 and 1.28, respectively.]

Calculate the percentage of the labeled amount of amlodipine ($C_{20}H_{25}ClN_2O_5$) dissolved:

$$\text{Result} = (r_U/r_S) \times C_S \times V \times (1/L) \times (M_{r1}/M_{r2}) \times 100$$

r_U = peak response of amlodipine from the *Sample solution*

r_S = peak response of amlodipine from the *Standard solution*

C_S = concentration of USP Amlodipine Besylate RS in the *Standard solution* (mg/mL)

V = volume of *Medium*, 500 mL

L = label claim of amlodipine (mg/Tablet)

M_{r1} = molecular weight of amlodipine, 408.88

M_{r2} = molecular weight of amlodipine besylate, 567.05

Tolerances: NLT 80% (Q) of the labeled amount each of telmisartan ($C_{33}H_{30}N_4O_2$) and amlodipine ($C_{20}H_{25}ClN_2O_5$) is dissolved.

• **UNIFORMITY OF DOSAGE UNITS ⟨905⟩:** Meet the requirements

IMPURITIES

Change to read:

• **ORGANIC IMPURITIES**

Buffer 1: 0.023 M ammonium acetate in water. Adjust with phosphoric acid to a pH of 5.5.

Solution A: Acetonitrile and *Buffer 1* (20:80)

Solution B: Acetonitrile and *Buffer 1* (65:35)

Mobile phase: See *Table 2*.

Table 2

Time (min)	Solution A (%)	Solution B (%)
0	95	5
5	95	5
15	70	30
35	45	55
50	5	95
65	0	100
70	0	100
75	95	5
80	95	5

Buffer 2: 0.023 M ammonium acetate in water. Adjust with phosphoric acid to a pH of 2.0.

Diluent: Acetonitrile and *Buffer 2* (40:60)

Standard stock solution 1: 0.5 mg/mL of USP Telmisartan RS in *Diluent*

Standard stock solution 2: 0.17 mg/mL of USP Amlodipine Besylate RS in *Diluent*

Standard solution: 25 µg/mL of USP Telmisartan RS from *Standard stock solution 1* and 4.25 µg/mL of USP Amlodipine Besylate RS from *Standard stock solution 2* in *Diluent*

Sensitivity solution: 0.25 µg/mL of USP Telmisartan RS from *Standard stock solution 1* and 0.11 µg/mL of USP Amlodipine Besylate RS from *Standard stock solution 2* in *Diluent*

Sample solution: Nominally 0.25 mg/mL of amlodipine prepared as follows. Transfer a suitable quantity, nominally equivalent to 25 mg of amlodipine from finely powdered Tablets (NLT 10), to a suitable volumetric flask. Add *Diluent* to 70% of the volume of the flask. Sonicate in cold water for 15 min with intermittent shaking. Dilute with *Diluent* to volume. Pass a portion of the solution under test through a suitable filter of 0.45-µm pore size.

Chromatographic system

(See *Chromatography ⟨621⟩, System Suitability*.)

Mode: LC

Detector: UV 257 nm

Column: 4.6-mm × 25-cm; 5-µm packing L1

Temperatures

Autosampler: 10°

Column: 30°

Flow rate: 1 mL/min

Injection volume: 20 µL

System suitability

Samples: *Standard solution* and *Sensitivity solution*

[NOTE—The relative retention times for amlodipine and telmisartan are 0.74 and 1.0, respectively.]

Suitability requirements

Tailing factor: NMT 2.5, *Standard solution*

Relative standard deviation: NMT 5.0%, *Standard solution*

Signal-to-noise ratio: NLT 10, *Sensitivity solution*

Analysis

Samples: *Standard solution* and *Sample solution*

Calculate the percentage of ▲amlodipine related compound A▲ (IRA 1-Dec-2020) or amlodipine mannitol adduct in the portion of Tablets taken:

$$\text{Result} = (r_U/r_S) \times (C_S/C_U) \times (1/F) \times (M_{r1}/M_{r2}) \times 100$$

r_U = peak response of ▲amlodipine related compound A▲ (IRA 1-Dec-2020) or amlodipine mannitol adduct from the *Sample solution*

r_S = peak response of amlodipine from the *Standard solution*

C_S = concentration of USP Amlodipine Besylate RS in the *Standard solution* (µg/mL)

C_U = nominal concentration of amlodipine in the *Sample solution* (µg/mL)

F = relative response factor (see *Table 3*)

M_{r1} = molecular weight of amlodipine, 408.88

M_{r2} = molecular weight of amlodipine besylate, 567.05

Calculate the percentage of each individual unspecified degradation product in the portion of Tablets taken:

$$\text{Result} = (r_U/r_S) \times (C_S/C_U) \times (M_{r1}/M_{r2}) \times 100$$

r_U = peak response of each individual unspecified degradation product from the *Sample solution*

r_S = peak response of amlodipine from the *Standard solution*

C_S = concentration of USP Amlodipine Besylate RS in the *Standard solution* (µg/mL)

C_U = nominal concentration of amlodipine in the *Sample solution* (µg/mL)

M_{r1} = molecular weight of amlodipine, 408.88

M_{r2} = molecular weight of amlodipine besylate, 567.05

Acceptance criteria: See *Table 3*. ▲The reporting threshold is 0.1%.▲ (USP 1-Dec-2020)

Table 3

Name	Relative Retention Time	Relative Response Factor	Acceptance Criteria, NMT (%)
Besylate[a]	0.08	—	—
▲Amlodipine related compound A▲ (IRA 1-Dec-2020) [b]	0.59	0.39	1.0
Amlodipine mannitol adduct	0.67	1.00	0.50
Amlodipine	0.74	—	—
Telmisartan related compound A[c,d]	0.78	—	—
Telmisartan related compound B[d,e]	0.86	—	—
Telmisartan	1.0	—	—
Any individual unspecified degradation product	—	—	0.2
Total degradation products	—	—	2.0

[a] Peak due to besylate (benzenesulfonic acid).

▲[b] 3-Ethyl 5-methyl [2-(2-aminoethoxymethyl)-4-(2-chlorophenyl)-6-methyl-3,5-pyridinedicarboxylate] fumarate.▲ (IRA 1-Dec-2020)

[c] 1,7'-Dimethyl-2'-propyl-1*H*,3'*H*-2,5'-bibenzo[*d*]imidazole.

[d] Process impurities controlled in the drug substance.

[e] 4'-[(1,7'-Dimethyl-2'-propyl-1*H*,1'*H*-2,5'-bibenzo[*d*]imidazol-1'-yl)methyl]biphenyl-2-carboxylic acid.

ADDITIONAL REQUIREMENTS

- **Packaging and Storage:** Preserve in tight containers. Store at controlled room temperature.
- **Labeling:** When more than one *Dissolution* test is given, the labeling states the *Dissolution* test used only if *Test 1* is not used.
- **USP Reference Standards** ⟨11⟩

USP Amlodipine Besylate RS
USP Telmisartan RS

Auxiliary Information - Please check for your question in the FAQs before contacting USP.

Topic/Question	Contact	Expert Committee
TELMISARTAN AND AMLODIPINE TABLETS	Documentary Standards Support	SM22020 Small Molecules 2

Topic/Question	Contact	Expert Committee
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM22020 Small Molecules 2

Chromatographic Database Information: Chromatographic Database

Most Recently Appeared In:
Pharmacopeial Forum: Volume No. 46(3)

Current DocID: GUID-28BAF205-CE48-4560-8D78-F368969563E6_7_en-US

DOI: https://doi.org/10.31003/USPNF_M5502_07_01

DOI ref: tk61g