1 Rilmazafone Hydrochloride Tablets

2 リルマザホン塩酸塩錠

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4 Rilmazafone Hydrochloride Tablets contain not 5 less than 93.0% and not more than 107.0% of the la-6 beled amount of rilmazafone hydrochloride hydrate 7 ($C_{21}H_{20}Cl_2N_6O_3$.HCl.2H₂O: 547.82).

8 Method of preparation Prepare as directed under Tab-9 lets, with Rilmazafone Hydrochloride Hydrate.

10 Identification To a quantity of powdered Rilmazafone

11 Hydrochloride Tablets, equivalent to 10 mg of Rilmazafone

12 Hydrochloride Hydrate, add 5 mL of methanol, shake for

13 10 minutes, and centrifuge. Filter the supernatant liquid 14 with a membrane filter with a pore size not exceeding 0.45

14 with a membrane filter with a pore size not exceeding 0.45

15 μ m, and use the filtrate as the sample solution. Separately, 16 dissolve 2 mg of rilmazafone hydrochloride hydrate in 1 mL

17 of methanol, and use this solution as the standard solution.

18 Perform the test with these solutions as directed under Thin-

19 layer Chromatography <2.03>. Spot 10 μ L each of the sam-

20 ple solution and standard solution on a plate of silica gel

21 with fluorescent indicator for thin-layer chromatography.

22 Develop the plate with a mixture of ethyl acetate, acetoni-

23 trile, water and acetic acid (100) (8:4:3:3) to a distance of

24 about 10 cm, and air-dry the plate. Examine under ultravio-

25 let light (main wavelength: 254 nm): the principal spot ob-

26 tained from the sample solution and the spot from the stand-

27 ard solution show the same *R*f value.

28 Uniformity of dosage units <6.02> Perform the test ac29 cording to the following method: it meets the requirement
30 of the Content uniformity test.

To 1 tablet of Rilmazafone Hydrochloride Tablets add V 31 32 mL of water so that each mL contains about 0.2 mg of ril-33 hydrochloride mazafone hydrate (C21H20Cl2N6O3.HCl.2H2O). Add exactly 2V mL of the in-34 35 ternal standard solution, shake vigorously for 10 minutes, 36 and filter with a membrane filter with a pore size not ex-37 ceeding 0.45 μ m. Discard the first 5 mL of the filtrate, and 38 use the subsequent filtrate as the sample solution. Sepa-39 rately, weigh accurately about 20 mg of Rilmazafone Hy-40 drochloride RS (separately determine the water <2.48> in 41 the same manner as Rilmazafone Hydrochloride Hydrate), and dissolve in water to make exactly 100 mL. Pipet 10 mL 42 of this solution, add exactly 20 mL of the internal standard 43 solution, and use this solution as the standard solution. Then, 44

44 solution, and use this solution as the standard solution. Then,
 45 proceed as directed in the Assay under Rilmazafone Hydro-

46 chloride Hydrate.

47 Amount (mg) of rilmazafone hydrochloride hydrate 48 (C₂₁H₂₀Cl₂N₆O₃.HCl.2H₂O)

49 = $M_{\rm S} \times Q_{\rm T}/Q_{\rm S} \times V/100 \times 1.070$

50 *M*_S: Amount (mg) of Rilmazafone Hydrochloride RS
 51 taken, calculated on the anhydrous basis

52 Internal standard solution-A solution of propyl parahy-

droxybenzoate in a mixture of water and acetonitrile (1:1)(3 in 100,000).

55 Dissolution <6.10> When the test is performed at 50 rev56 olutions per minute according to the Paddle method, using
57 900 mL of water as the dissolution medium, the dissolution
58 rate in 15 minutes of Rilmazafone Hydrochloride Tablets is
59 not less than 85%.

60 Start the test with 1 tablet of Rilmazafone Hydrochloride 61 Tablets, withdraw not less than 20 mL of the medium at the 62 specified minute after starting the test, and filter through a 63 membrane filter with a pore size not exceeding 0.45 μ m. Discard the first 10 mL of the filtrate, pipet V mL of the 64 subsequent filtrate, add water to make exactly V' mL so that 65 each mL contains about 1.1 μ g of rilmazafone hydrochlo-66 67 ride hydrate (C21H20Cl2N6O3.HCl.2H2O), and use this solu-68 tion as the sample solution. Separately, weigh accurately about 22 mg of Rilmazafone Hydrochloride RS (separately 69 70 determine the water $\langle 2.48 \rangle$ in the same manner as Ril-71 mazafone Hydrochloride Hydrate), and dissolve in water to 72 make exactly 100 mL. Pipet 5 mL of this solution, add water 73 to make exactly 100 mL. Then, pipet 5 mL of this solution, 74 add water to make exactly 50 mL, and use this solution as the standard solution. Perform the test with exactly 50 μ L 75 76 each of the sample solution and standard solution as di-

- 77 rected under Liquid Chromatography <2.01> according to
- 78 the following conditions, and determine the peak areas, $A_{\rm T}$
- 79 and As, of rilmazafone in each solution.

80 Dissolution rate (%) with respect to the labeled amount of

81 rilmazafone hydrochloride hydrate

82 $(C_{21}H_{20}Cl_2N_6O_3.HCl.2H_2O)$

83 = $M_{\rm S} \times A_{\rm T}/A_{\rm S} \times V'/V \times 1/C \times 9/2 \times$ 84 1.070

M_S: Amount (mg) of Rilmazafone Hydrochloride RS
taken, calculated on the anhydrous basis

87 C: Labeled amount (mg) of rilmazafone hydrochloride

 $88 \qquad \qquad hydrate \ (C_{21}H_{20}Cl_2N_6O_3.HCl.2H_2O) \ in \ 1 \ tablet$

89 Operating conditions –

90 Proceed as directed in the operating conditions in the

91 Assay under Rilmazafone Hydrochloride Hydrate.

92 System suitability –

93 System performance: When the procedure is run with 50 94 μ L of the standard solution under the above operating 95 conditions, the number of theoretical plates and the 96 symmetry factor of the peak of rilmazafone are not less than 97 5000 and not more than 1.5, respectively.

98 System repeatability: When the test is repeated 6 times 99 with 50 μ L of the standard solution under the above

100 operating conditions, the relative standard deviation of the peak area of rilmazafone is not more than 2.0%. 101

102 Assay Weigh accurately the mass of not less than 20 tablets of Rilmazafone Hydrochloride Tablets, and powder. 103 104 Weigh accurately a portion of the powder, equivalent to 105 about 2 mg of rilmazafone hydrochloride hydrate (C₂₁H₂₀Cl₂N₆O₃.HCl.2H₂O), add 10 mL of water and exactly 106 20 mL of the internal standard solution, shake vigorously 107 108 for 10 minutes, and filter through a membrane filter with a 109 pore size not exceeding 0.45 μ m. Discard the first 5 mL of the filtrate, and use the subsequent filtrate as the sample so-110 111 lution. Separately, weigh accurately about 20 mg of Ril-112 mazafone Hydrochloride RS (separately determine the wa-113 ter <2.48> in the same manner as Rilmazafone Hydrochloride Hydrate), and dissolve in water to make exactly 100 114 115 mL. Pipet 10 mL of this solution, add exactly 20 mL of the internal standard, and use this solution as the standard solu-116 117 tion. Then, proceed as directed in the Assay under Rilmazafone Hydrochloride Hydrate. 118 119 Amount (mg) of rilmazafone hydrochloride hydrate 120 (C21H20Cl2N6O3.HCl.2H2O) $=M_{\rm S} \times Q_{\rm T}/Q_{\rm S} \times 1/10 \times 1.070$ 121 122 Ms: Amount (mg) of Rilmazafone Hydrochloride RS 123 taken, calculated on the anhydrous basis 124 Internal standard solution-A solution of propyl parahy-

125 droxybenzoate in a mixture of water and acetonitrile (1:1) (3 in 100,000). 126

127 Containers and storage Containers-Well-closed con-128 tainers.

Add the following to 9.01 Reference 129 130 Standards (1):

131 **Rilmazafone hydrochloride RS**

132 Add the following to 9.41 Reagents,

133 Test Solutions:

Rilmazafone hydrochloride hydrate 134

- 135 $C_{21}H_{20}Cl_2N_6O_3.HCl.2H_2O\ \ [Same as the namesake mono$ graph]
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