

1 Clotiazepam Tablets

2 クロチアゼパム錠

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4 Clotiazepam Tablets contain not less than 95.0% and not
5 more than 105.0% of the labeled amount of clotiazepam
6 ($C_{16}H_{15}ClN_2OS$: 318.82).

7 **Method of preparation** Prepare as directed under Tablets, with
8 Clotiazepam.

9 **Identification** Determine the absorption spectrum of the sample
10 solution obtained in the Assay as directed under Ultraviolet-visi-
11 ble Spectrophotometry <2.24>: it exhibits maximum between 260
12 nm and 264 nm.

13 **Uniformity of dosage unit** <6.02> Perform the test according to
14 the following method: it meets the requirement of the Content uni-
15 formity test.

16 To 1 tablet of Clotiazepam Tablets add 35 mL of 0.1 mol/L hy-
17 drochloric acid TS, stir until the tablet is completely disintegrated,
18 stir for a further 10 minutes, and add 0.1 mol/L hydrochloric acid
19 TS to make exactly 50 mL. Centrifuge this solution, pipet V mL
20 of the supernatant liquid, add 0.1 mol/L hydrochloric acid TS to
21 make exactly V' mL so that each mL contains about 10 μg of clo-
22 tiazepam ($C_{16}H_{15}ClN_2OS$), and use this solution as the sample so-
23 lution. Then, proceed as directed in the Assay.

$$\begin{aligned} & \text{Amount (mg) of clotiazepam (C}_{16}\text{H}_{15}\text{ClN}_2\text{OS)} \\ & = M_S \times A_T/A_S \times V'/V \times 1/50 \end{aligned}$$

26 M_S : Amount (mg) of clotiazepam for assay taken

27 **Dissolution** <6.10> When the test is performed at 50 revolutions
28 per minute according to the Paddle method, using 900 mL of 1st
29 fluid for dissolution test as the dissolution medium, the dissolution
30 rate in 45 minutes of Clotiazepam Tablets is not less than 80%.

31 Start the test with 1 tablet of Clotiazepam Tablets, withdraw not
32 less than 20 mL of the medium at the specified minute after start-
33 ing the test, and filter through a membrane filter with a pore size
34 not exceeding 0.45 μm . Discard the first 10 mL of the filtrate, pi-
35 pet V mL of the subsequent filtrate, add the dissolution medium to
36 make exactly V' mL so that each mL contains about 5.6 μg of clo-
37 tiazepam ($C_{16}H_{15}ClN_2OS$), and use this solution as the sample so-
38 lution. Separately, weigh accurately about 28 mg of clotiazepam
39 for assay, previously dried at 80°C for 3 hours, and dissolve in
40 ethanol (95) to make exactly 25 mL. Pipet 5 mL of this solution,
41 and add the dissolution medium to make exactly 100 mL. Pipet 5
42 mL of this solution, add the dissolution medium to make exactly
43 50 mL, and use this solution as the standard solution. Determine
44 the absorbances, A_T and A_S , of the sample solution and standard
45 solution at 262 nm as directed under Ultraviolet-visible Spectro-
46 photometry <2.24>, using the dissolution medium as the blank.

47 Dissolution rate (%) with respect to the labeled amount of clotiaz-
48 epam ($C_{16}H_{15}ClN_2OS$)

$$= M_S \times A_T/A_S \times V'/V \times 1/C \times 18$$

50 M_S : Amount (mg) of clotiazepam for assay taken

51 C : Labeled amount (mg) of clotiazepam ($C_{16}H_{15}ClN_2OS$) in 1
52 tablet

53 **Assay** To 20 Clotiazepam Tablets add 350 mL of 0.1 mol/L hy-
54 drochloric acid TS, stir until the tablets are completely disinte-
55 grated, stir for a further 10 minutes, and add 0.1 mol/L hydrochlo-
56 ric acid TS to make exactly 500 mL. Centrifuge this solution, pipet
57 V mL of the supernatant liquid, add 0.1 mol/L hydrochloric acid
58 TS to make exactly V' mL so that each mL contains about 10 μg
59 of clotiazepam ($C_{16}H_{15}ClN_2OS$), and use this solution as the sam-
60 ple solution. Separately, weigh accurately about 25 mg of clotiaz-
61 epam for assay, previously dried at 80°C for 3 hours, and dissolve
62 in 0.1 mol/L hydrochloric acid TS to make exactly 50 mL. Pipet 2
63 mL of this solution, add 0.1 mol/L hydrochloric acid TS to make
64 exactly 100 mL, and use this solution as the standard solution. De-
65 termine the absorbances, A_T and A_S , of the sample solution and
66 standard solution at 261 nm as directed under Ultraviolet-visible
67 Spectrophotometry <2.24>.

$$\begin{aligned} & \text{Amount (mg) of clotiazepam (C}_{16}\text{H}_{15}\text{ClN}_2\text{OS) in 1 tablet} \\ & = M_S \times A_T/A_S \times V'/V \times 1/100 \end{aligned}$$

70 M_S : Amount (mg) of clotiazepam for assay taken

71 **Containers and storage** Containers—Tight containers.
72 Storage—Light-resistant.

73 **Add the following to 9.41 Reagents, Test**
74 **Solutions:**

75 **Clotiazepam for assay** $C_{16}H_{15}ClN_2OS$ [Same as the mono-
76 graph Clotiazepam. When dried, it contains not less than 99.0% of
77 clotiazepam ($C_{16}H_{15}ClN_2OS$).]

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