the quantity, in mg, of acetazolamide (C ₄H₆N₄O₃S₂) in the portion of Tablets taken by the formula:

 $1000C(R_U / R_S)$

in which C is the concentration, in mg per mL, of USP Acetazolamide RS in the Standard preparation; and R_U and R_S are the peak response ratios of the analyte peak to the internal standard peak obtained from the Assay preparation and the Standard preparation, respectively.

Glacial Acetic Acid

 $C_2H_4O_2$ Acetic acid [64-19-7]. 60.05

DEFINITION

Glacial Acetic Acid contains NLT 99.5% and NMT 100.5%, by weight, of C₂H₄O₂.

IDENTIFICATION

• **IDENTIFICATION TESTS—GENERAL**, Acetate (191): Meets the requirements

Sample solution (for lanthanum nitrate test): Glacial Acetic Acid and water (1:100)

ASSAY

PROCEDURE

Sample solution: Measure 2 mL of Glacial Acetic Acid into a glass-stoppered flask, previously tared while containing about 20 mL of water, and weigh again to obtain the weight of the substance under assay.

Analysis: Add 20 mL of water, then add phenolphthalein TS. Titrate with 1 N sodium hydroxide VS. Each mL of 1 N sodium hydroxide is equivalent to 60.05 mg of C ₂H₄O₂. Acceptance criteria: 99.5%-100.5%

IMPURITIES

Inorganic Impurities

• LIMIT OF NONVOLATILE RESIDUE: Evaporate 20 mL in a tared dish, and dry at 105° for 1 h: the weight of the residue does not exceed 1.0 mg.

• HEAVY METALS (231): NMT 5 ppm
Sample solution: To the residue obtained in the test for
Limit of Nonvolatile Residue add 8 mL of 0.1 N hydrochloric acid, warm gently until solution is complete, dilute with water to 100 mL, and use 20 mL. • Chloride and Sulfate, Chloride $\langle 221 \rangle$

Sample solution: Dilute 1.0 mL with 20 mL of water.

Analysis: Add 5 drops of silver nitrate TS. **Acceptance criteria:** No opalescence is produced.

• CHLORIDE AND SULFATE, Sulfate (221)

Sample solution: Dilute 1.0 mL with 10 mL of water. Analysis: Add 1 mL of barium chloride TS. Acceptance criteria: No turbidity is produced.

Organic Impurities

• PROCEDURE: READILY OXIDIZABLE SUBSTANCES

Sample solution: Dilute 2.0 mL in a glass-stoppered vessel with 10 mL of water.

Analysis: Add 0.10 mL of 0.10 N potassium permanganate. Acceptance criteria: The pink color is not changed to brown within 2 h.

SPECIFIC TESTS

• Congealing Temperature ⟨651⟩: NLT 15.6°

ADDITIONAL REQUIREMENTS

PACKAGING AND STORAGE: Preserve in tight containers, and store at room temperature.

Acetic Acid Irrigation

DEFINITION

Acetic Acid Irrigation is a sterile solution of Glacial Acetic Acid in Water for Injection. It contains, in each 100 mL, NL T 237.5 mg and NMT 262.5 mg of C 2H4O2.

IDENTIFICATION

• A. IDENTIFICATION TESTS—GENERAL, Acetate (191)

Sample: 100 mL of Acetic Acid Irrigation Analysis: Evaporate the Sample to about 10 mL. Acceptance criteria: The resulting solution meets the requirements.

ASSAY

PROCEDURE

Sample: 50 mL of Acetic Acid Irrigation

Analysis: Pipet the Sample into a 150-mL conical flask, add 2 drops of phenolphthalein TS, and titrate with 0.1 N so-dium hydroxide VS. Each mL of 0.1 N sodium hydroxide is

equivalent to 6.005 mg of acetic acid (C $_2H_4O_2$). **Acceptance criteria:** 237.5–262.5 mg of C $_2H_4O_2$ in each 100 mL of Acetic Acid Irrigation

SPECIFIC TESTS

- **PH (791)**: 2.8–3.4
- BACTERIAL ENDOTOXINS TEST (85): It contains NMT 0.5 USP Endotoxin Unit/mL.
- OTHER REQUIREMENTS: It meets the requirements under Injections (1), except that the container in which it is packaged may be designed to empty rapidly and may exceed 1000 mL in capacity.

ADDITIONAL REQUIREMENTS

- **PACKAGING AND STORAGE:** Preserve in single-dose containers, preferably of Type I or Type II glass, and store at controlled room temperature. It may be packaged in suitable plastic containers.
- USP REFERENCE STANDARDS $\langle 11 \rangle$

USP Endotoxin RS

Acetic Acid Otic Solution

DEFINITION

Acetic Acid Otic Solution is a solution of Glacial Acetic Acid in a suitable nonaqueous solvent. It contains NL T 85.0% and NMT 130.0% of the labeled amount of C₂H₄O₂.

IDENTIFICATION

• A.

Sample solution: Dilute 5 mL of Acetic Acid Otic Solution with 10 mL of water.

Analysis: Adjust the Sample solution with 1 N sodium hydroxide to a pH of 7. Add ferric chloride TS.

Acceptance criteria: A deep red color is produced, and it is destroyed by the addition of hydrochloric acid.

Analysis: Warm it with sulfuric acid and alcohol. Acceptance criteria: Ethyl acetate, recognizable by its characteristic odor, is evolved.

ASSAY

PROCEDURE

Sample: A quantity of Acetic Acid Otic Solution containing 100 mg of glacial acetic acid

Analysis: Transfer the Sample to a 250-mL conical flask, and add 5 mL of saturated sodium chloride solution, 40 mL of water, and 3 drops of phenolphthalein TS. T itrate with 0.1 N sodium hydroxide VS to a faint pink endpoint. Each mL of 0.1 N sodium hydroxide is equivalent to 6.005 mg of acetic acid ($C_2H_4O_2$).