Acceptance criteria: No turbidity is produced.

Delete the following:

· HEAVY METALS (231)

Sample solution: To the residue obtained in the test for Nonvolatile Residue add 8 mL of 0.1 N hydrochloric acid, warm gently until completely dissolved, and dilute with water to 100 mL. Use 10 mL of this solution. Acceptance criteria: NMT 10 ppm (Official 1-jan-2018)

READILY OXIDIZABLE SUBSTANCES

Analysis: Dilute 4.0 mL in a glass-stoppered vessel with 20 mL of water, and add 0.30 mL of 0.10 N potassium permanganate.

Acceptance criteria: The pink color is not changed to brown at once, and the liquid does not become entirely brown or free from a pink tint in less than 30 s.

ADDITIONAL REQUIREMENTS

• PACKAGING AND STORAGE: Preserve in tight containers.

Diluted Acetic Acid

DEFINITION

Diluted Acetic Acid is a solution containing, in each 100 mL, NLT 5.7 g and NMT 6.3 g of acetic acid (C₂H₄O₂). Prepare Diluted Acetic Acid as follows (see *Pharmaceutical Compounding—Nonsterile Preparations* (795)).

Analysis

Samples: Standard solution and Sample solution
 Record the chromatograms for a run time NLT 3 times
 the retention time of the acesulfame potassium peak,
 and measure the area responses of the peaks.

Acceptance criteria: The response of any peak at a re tention time other than that of acesulfame potassium
 from the Sample solution does not exceed the response
 of the acesulfame potassium peak from the Standard
 solution (0.002%).

SPECIFIC TESTS

· ACIDITY OR ALKALINITY

Sample solution: 4.0 g in 20 mL of carbon dioxide-free water

Analysis: Add 0.1 mL of bromothymol blue TS. If the solution is yellow, titrate with 0.01 N sodium hydroxide to produce a blue color. If the solution is blue, titrate with 0.01 N hydrochloride acid to produce a yellow color.

Acceptance criteria: NMT 0.2 mL of 0.01 N sodium hydroxide or NMT 0.2 mL of 0.01 N hydrochloric acid is required.

 Loss on DRYING (731): Dry a sample at 105° for 3 h: it loses NMT 1.0% of its weight.

ADDITIONAL REQUIREMENTS

- PACKAGING AND STORAGE: Preserve in a well-closed container, and protect from light. Store at room temperature.
- USP REFERENCE STANDARDS (11) USP Acesulfame Potassium RS

Acetic Acid

Acetic acid; Acetic acid [64-19-7].

DEFINITION

Acetic Acid is a solution containing NLT 36.0% and NMT 37.0%, by weight, of C₂H₄O₂.

IDENTIFICATION

 A. IDENTIFICATION TESTS—GENERAL, Acetate (191): Meets the requirements

ASSAY

• PROCEDURE

Analysis: Place 6 mL in a tared, glass-stoppered flask, and weigh. Add 40 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 C₂H₄O₂.

Acceptance criteria: 36.0%-37.0%

IMPURITIES

• NONVOLATILE RESIDUE

Analysis: Evaporate 20 mL in a tared porcelain dish on a steam bath, and dry at 105° for 1 h.

Acceptance criteria: The weight of the residue does not exceed 1.0 mg (0.005%).

• CHLORIDE

Sample solution: Acetic acid (1 in 10) in water Analysis: To 10 mL of the Sample solution add 5 drops of silver nitrate TS.

Acceptance criteria: No opalescence is produced.

SULFATE

Sample solution: Acetic acid (1 in 10) in water Analysis: To 10 mL of the Sample solution add 5 drops of barium chloride TS.

Acetic Acid	158 mL
Purified Water, a sufficient quantity to make	1000 mL

Mix the ingredients.

IDENTIFICATION

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

ASSAY

• PROCEDURE

Sample: 25 mL

Analysis: To the Sample add 15 mL of carbon dioxidefree water. Add phenolphthalein TS, and titrate with 1 N sodium hydroxide VS. Each mL of 1 N sodium hydroxide is equivalent to 60.05 mg of acetic acid $(C_2H_4O_2)$.

Acceptance criteria: 5.7–6.3 g of acetic acid per 100 mL of Diluted Acetic Acid

IMPURITIES

Delete the following:

· HEAVY METALS, Method 1 (231)

Test preparation: Evaporate 5 mL in a porcelain dish on a steam bath to dryness. Warm the residue with 2 mL of 1 N acetic acid, and dilute with water to 50 mL. Dilute 20 mL of this solution with water to 25 mL.

Acceptance criteria: NMT 10 ppme (Official 1-Jan-2018)

- LIMIT OF CHLORIDE
 - Sample solution: A solution of Diluted Acetic Acid in water (6 in 10)
 - Analysis: Add 5 drops of silver nitrate TS to 10 mL of the Sample solution.
 - Acceptance criteria: No opalescence is found.
- LIMIT OF SULFATE

Sample solution: A solution of Diluted Acetic Acid in water (6 in 10)