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Add the following:

***Chlorothiazide Compounded Oral Suspension**

DEFINITION

 $Chlorothiazide\ Compounded\ Oral\ Suspension\ contains\ NLT\ 90.0\%\ and\ NMT\ 110.0\%\ of\ the\ labeled\ amount\ of\ chlorothiazide\ (C_7H_6ClN_3O_4S_2).$

Prepare Chlorothiazide Compounded Oral Suspension 50 mg/mL as follows (see Prepare Chlorothiazide Compounding-Nonsterile Preparations (795))

Chlorothiazide tablets, ^a equivalent to	5 g of chlorothiazide
Ora-Blend, ^b a sufficient quantity to make	100 mL

^a Chlorothiazide 500-mg tablets, Mylan Pharmaceuticals, Inc., Morgantown, WV.

Place the *Chlorothiazide tablets* in a suitable container and triturate to a fine powder. Add a small amount of *Ora-Blend* and mix well to form a smooth paste. Add a sufficient amount of *Ora-Blend* to make the contents pourable. Transfer the contents stepwise and quantitatively into a calibrated container using the remainder of the *Ora-Blend*. Add sufficient *Ora-Blend* to bring to final volume. Mix well.

ASSAY

Procedure

Solution A: 92.5 mM monobasic sodium phosphate monohydrate adjusted with phosphoric acid to a pH of 2.9

Mobile phase: Methanol and Solution A (20:80)

Standard solution: Transfer 20 mg of <u>USP Chlorothiazide RS</u> to a 200-mL volumetric flask and dissolve in about 20 mL of methanol. Add water to bring to final volume.

Sample solution: Transfer 1.0 mL of Oral Suspension into a 50-mL volumetric flask, and add methanol to volume. Transfer 1.0 mL of the resultant solution into a 10-mL volumetric flask, and add water to bring to final volume.

Chromatographic system

(See Chromatography (621), System Suitability.)

Mode: LC

Detector: UV 227 nm

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

Flow rate: 2.0 mL/min Injection volume: 15 μL System suitability

Sample: Standard solution

[Note—The retention time for chlorothiazide is about 4.4 min.]

Suitability requirements
Tailing factor: NMT 2.0

Relative standard deviation: NMT 2.0% for replicate injections

Analysis

Samples: Standard solution and Sample solution

Calculate the percentage of the labeled amount of chlorothiazide (C₂H₆ClN₃O₄S₂) in the portion of Oral Suspension taken:

Result =
$$(r_{II}/r_{S}) \times (C_{S}/C_{II}) \times 100$$

 r_{ij} = peak response of chlorothiazide from the Sample solution

^b Perrigo Pharmaceuticals, Allegan, MI.

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 $r_{_{S}}$ = peak response of chlorothiazide from the Standard solution

 C_s = concentration of <u>USP Chlorothiazide RS</u> in the Standard solution (mg/mL)

 C_{ij} = nominal concentration of chlorothiazide in the Sample solution (mg/mL)

Acceptance criteria: 90.0%-110.0%

SPECIFIC TESTS

• PH (791): 3.9-4.9

ADDITIONAL REQUIREMENTS

- PACKAGING AND STORAGE: Package in tight, light-resistant containers. Store at controlled room temperature or in a refrigerator.
- BEYOND-USE DATE: NMT 90 days after the date on which it was compounded when stored at controlled room temperature or in a refrigerator
- Labeling: Label it to indicate that it is to be well shaken before use, and to state the Beyond-Use Date.
- USP Reference Standards $\langle 11 \rangle$

USP Chlorothiazide RS▲ (USP 1-May-2019)

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

Topic/Question	Contact	Expert Committee
CHLOROTHIAZIDE COMPOUNDED ORAL SUSPENSION	Brian Serumaga Science Program Manager	CMP2020 Compounding 2020

Chromatographic Database Information: Chromatographic Database

Most Recently Appeared In:

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