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Product Information

CHLORAMPHENICOL SIGMA REFERENCE STANDARD

Product No. **C6455**

Lot No: 103K8800

Storage Temperature: 2 – 8°

Formula: $C_{11}H_{12}Cl_2N_2O_5$

Formula Weight: 323.13

CAS No: 56-75-7

Synonyms: Acetamide, 2,2-dichloro-*N*-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]-, [*R*-(*R**,*R**)]-*D*-*threo*-(-)-2,2-Dichloro-*N*-[β-hydroxy-α-(hydroxymethyl)-*p*-nitrophenethyl]acetamide.

Product Description

This product meets USP specifications (Current through USP 26, 1st Supplement), and is traceable to USP Reference Standard lot N

Do not dry before using. Keep container tightly closed. Store in a cold dry place.

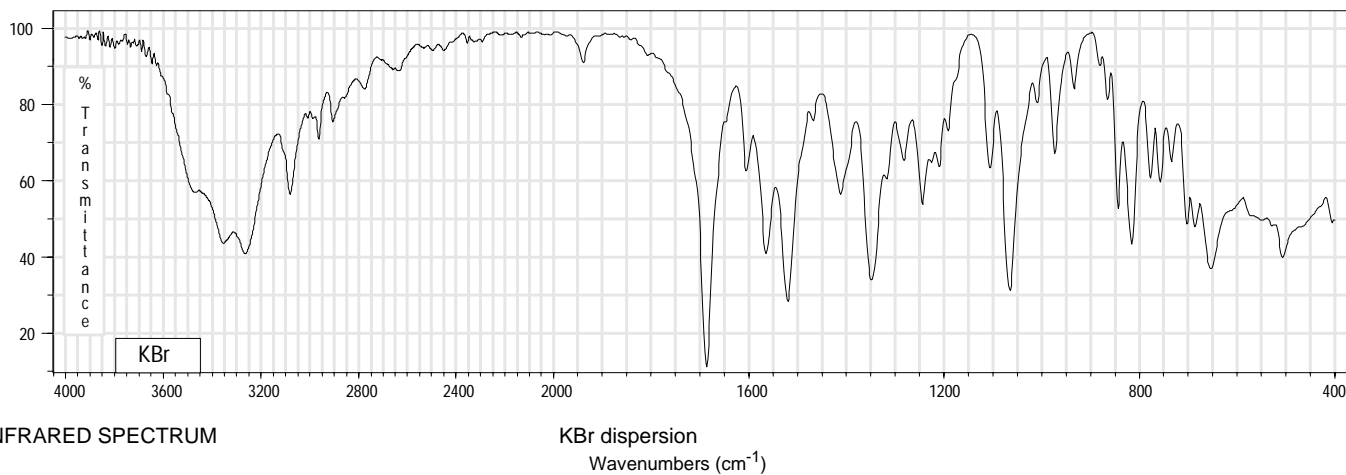
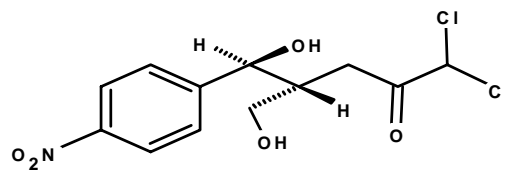
TEST	USP 25 SPECIFICATIONS	Result Sigma R.S. Lot 103K8800
Infrared absorption spectrum KBr dispersion (197K)	compares to standard	conforms to USP RS lot N
Identification B high pressure liquid chromatography (621)	retention time of the major peak of the chromatogram in the <i>Assay preparation</i> corresponds to the major peak in the <i>Standard preparation</i> as obtained in the <i>Assay</i>	meets requirement
Melting range (741)	between 149° and 153°C	149.5 – 151.7°C
Specific rotation (781S) 50 mg, undried, per mL, in dehydrated alcohol	between +17.0° and +20.0°	+19.0°
Crystallinity (695)	meets requirements	passes
pH (791)	between 4.5 and 7.5, in an aqueous suspension containing 25 mg	6.1
Chromatographic purity	no impurity greater than 1% and the sum of all impurities does not exceed 2%	passes
Assay high performance liquid chromatography (621)	not less than 97.0 percent and not more than 103.0. percent	100.9%

See reverse side for IR spectrum of Sigma Reference Standard.

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Lot 103K8800



INFRARED SPECTRUM

KBr dispersion
Wavenumbers (cm⁻¹)

10/2003

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Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications.
Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply.
Please see reverse side of the invoice or packing slip.