

Product Information

CHLORAMPHENICOL SIGMA REFERENCE STANDARD

 Product No. **C6455**

Lot No: 046K8803

Storage Temperature: 2 – 8°

 Formula: C₁₁H₁₂Cl₂N₂O₅

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

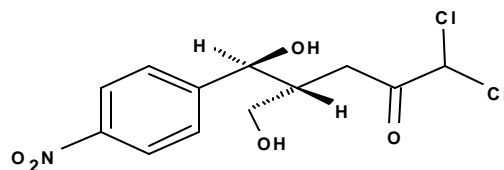
This product meets USP specifications (Current through USP 29, 1st Supplement), and is traceable to USP Reference Standard lot N1C074

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

TEST	USP 29 SPECIFICATIONS	Result Sigma R.S. Lot 046K8803
Infrared absorption spectrum KBr dispersion <197K>	compares to standard	conforms to USP RS lot N1C074
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>	corresponds
Melting range <741>	between 149° and 153°C	149.5°- 151.5°
Specific rotation <781S> 50 mg, undried, per mL, in dehydrated alcohol	between +17.0° and +20.0°	+19.81
Crystallinity <695>	meets requirements	passes
pH <791>	between 4.5 and 7.5, in an aqueous suspension containing 25 mg	6.29
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	97.7%

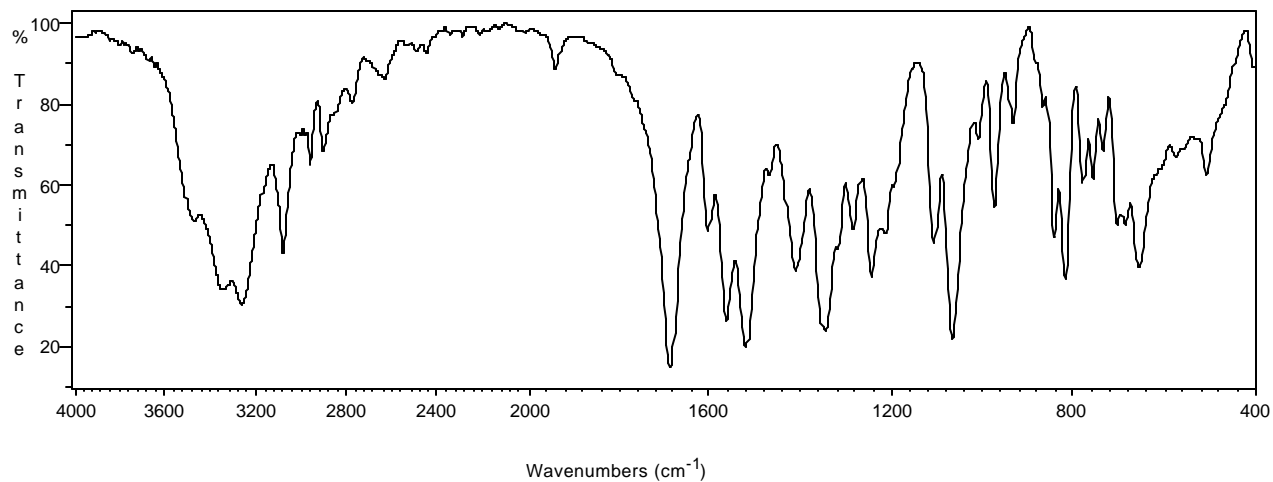
See reverse side for IR spectrum of Sigma Reference Standard.

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INFRARED SPECTRUM

KBr dispersion



3/2006

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Please see reverse side of the invoice or packing slip.