

Product Information

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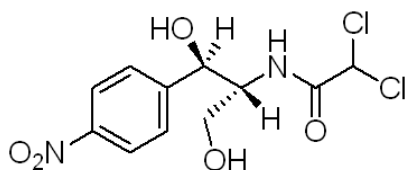
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Chloramphenicol Sigma Reference Standard

Catalog Number **C6455**
Lot Number 067K5014
Storage Temperature 2–8 °C

CAS RN 56-75-7

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



Product Description

Molecular Formula: C₁₁H₁₂Cl₂N₂O₅
Molecular Weight: 323.13

This product meets USP specifications (Current through USP 30, 2nd Supplement), and is traceable to USP Reference Standard lot N1C074.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Do not dry before using.

Storage/Stability

Store the product at 2–8 °C. Keep container tightly closed. Store in a cold dry place.

KSP,MAM 11/07-1

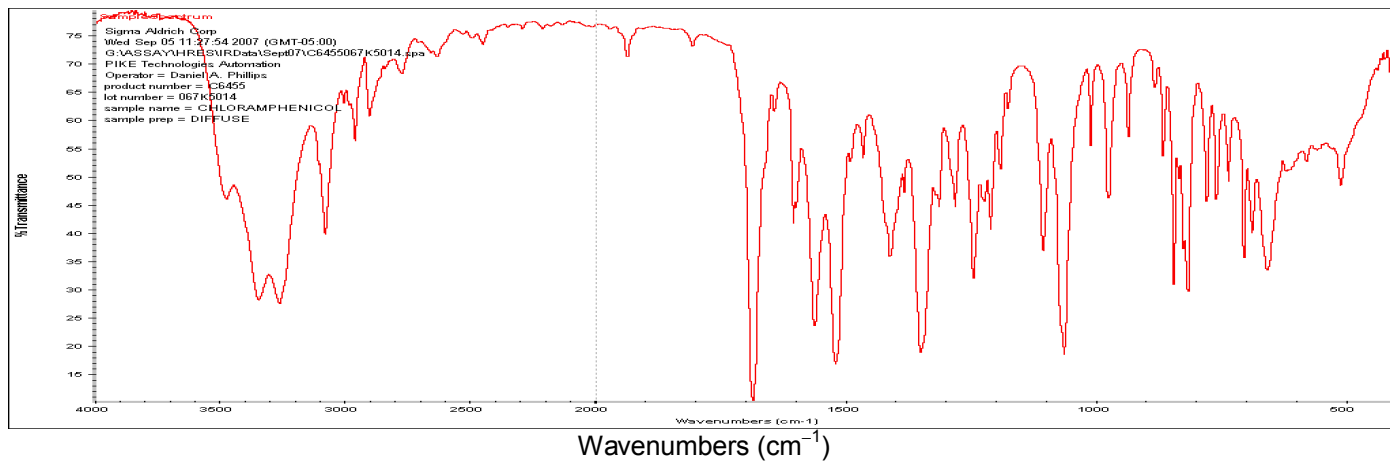
| TEST | USP 30 SPECIFICATIONS | Result Sigma Reference Standard Lot 067K5014 |
|--|---|--|
| Infrared absorption spectrum KBr dispersion <197K> | compares to standard | Conforms to USP Standard Lot N1C074 |
| Identification test B – high pressure liquid chromatography <621> | retention time of the major 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 149–153 °C | 149.5–151.5 °C |
| Specific rotation, [α] _D ²⁵ 50 mg, undried, per ml solution in dehydrated alcohol <781S> | between +17.0° and +20.0° | +19.82° |
| Crystallinity <695> | meets the requirements | passes |
| pH <791> | between 4.5 and 7.5, in an aqueous suspension containing 25 mg | 6.43 |
| Chromatographic purity | no impurity greater than 1% and the sum of all impurities does not exceed 2% | passes |
| Assay – high pressure liquid chromatography <621> | not less than 97.0% and not more than 103.0% | 99.1% |

See reverse side for IR spectrum of Sigma Reference Standard.

SIGMA-ALDRICH™

INFRARED SPECTRUM

KBr dispersion



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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.