



3050 Spruce Street  
Saint Louis, Missouri 63103 USA  
Telephone 800-325-5832 • (314) 771-5765  
Fax (314) 286-7828  
email: techserv@sial.com  
sigma-aldrich.com

## Product Information

### CHLORAMPHENICOL SIGMA REFERENCE STANDARD

Product No. **C6455**

Lot No: 102K8802

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

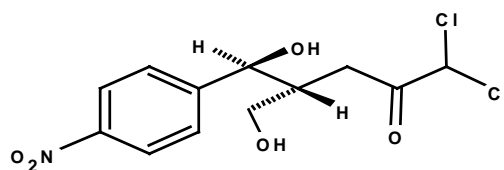
This product meets USP specifications (Current through USP 25, 2nd Supplement), and is traceable to USP Reference Standard lot N

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

TEST	USP 25 SPECIFICATIONS	Result Sigma R.S. Lot 102K8802
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%

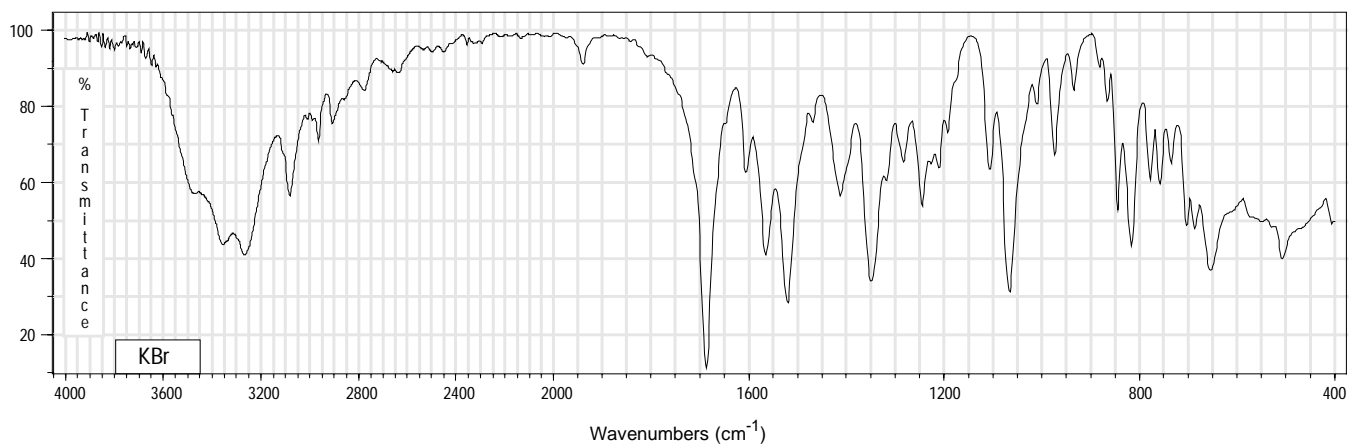
See reverse side for IR spectrum of Sigma Reference Standard.

**CHLORAMPHENICOL**  
**SIGMA REFERENCE STANDARD**  
Product No. **C6455**  
Lot 102K8802



INFRARED SPECTRUM

KBr dispersion



10/2002

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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.