



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

### DIGOXIN SIGMA REFERENCE STANDARD

Product No. **D6770**

Lot No: 93K8801

Storage Temperature: Room Temperature

Formula:  $C_{41}H_{64}O_{14}$

Formula Weight: 780.94

CAS No: 20830-75-5

Synonyms: Card-20(22)-enolide, 3-[(O-2,6-dideoxy- $\beta$ -D-ribo-hexopyranosyl-(1 $\rightarrow$  4)-O-2,6-dideoxy- $\beta$ -D-ribo-hexopyranosyl-(1 $\rightarrow$  4)-2,6-dideoxy- $\beta$ -D-ribo-hexopyranosyl)oxy]-12,14-dihydroxy-, (3 $\beta$ ,5 $\beta$ ,12 $\beta$ )-3 $\beta$ -[(O-2,6-Dideoxy- $\beta$ -D-ribo-hexopyranosyl-(1 $\rightarrow$  4)-O-2,6-dideoxy- $\beta$ -D-ribo-hexopyranosyl-(1 $\rightarrow$  4)-2,6-dideoxy- $\beta$ -D-ribo-hexopyranosyl)oxy]-12 $\beta$ ,14-dihydroxy-5 $\beta$ -card-20(22)-enolide.

#### Product Description

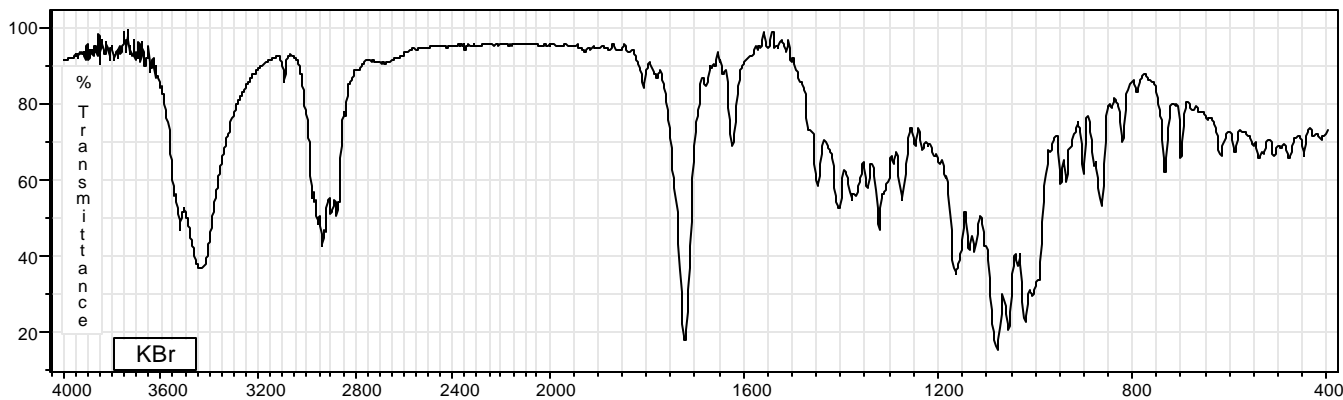
This product meets USP specifications (Current through USP 26, 1st Supplement), and is traceable to USP Reference Standard lot O0B096

Store in sealed vial at room temperature. Protect from light. Dry a portion in vacuum at 105°C for 1 hour before using. Use promptly. Discard unused material.

TEST	USP 26 SPECIFICATIONS	Result Sigma R.S. Lot 93K8801
Infrared absorption spectrum KBr dispersion (197K)	compares to standard	conforms to USP RS lot O0B096
Identification B	retention time of major peak in the chromatogram of the <i>Assay preparation</i> corresponds to that of the <i>Standard Preparation</i> as obtained in the Assay	conforms to USP RS lot O0B096
Identification C	R <sub>f</sub> value of the principle blue spot on thin-layer chromatogram of the <i>Test solution</i> corresponds to that obtained from the <i>Standard solution</i>	passes
Loss on Drying (731)	not more than 1.0%	passes
Residue on ignition (281)	not more than 0.5% from a 100 mg sample	passes
Related glycosides Thin-layer chromatography	not more than 3% of any related glycoside as gitoxin	passes
Assay High Performance Liquid Chromatography (621)	not less than 95.0% and not more than 101.0%	100.2%

See reverse side for IR spectrum of Sigma Reference Standard.

**DIGOXIN**  
**SIGMA REFERENCE STANDARD**  
Product No. **D6770**  
Lot 93K8801



INFRARED SPECTRUM

KBr dispersion  
Wavenumbers (cm<sup>-1</sup>)

9/2003

For R&D use only. Not for drug, household or other uses. Sigma brand products are sold through Sigma-Aldrich, Inc. 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.