





REFERENCES

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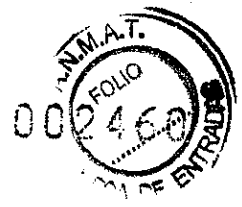
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Certificate of Analysis - Endotoxin Standard - PRP-T

	
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Product Name Adipic acid dihydrazide,
≥98%

Product Number A0638

Product Brand Sigma

IS Number 1071-93-8

Molecular Formula NH₂NHCO(CH₂)₄CONHNH₂

Molecular Weight 174.20

Storage Temp -20°C

TEST	SPECIFICATION	LOT 105K1511 RESULTS
APPEARANCE	WHITE POWDER	CONFORMS
SOLUBILITY	CLEAR COLORLESS SOLUTION AT 100MG/ML IN WATER	CONFORMS
IR SPECTRUM	CONSISTENT WITH STRUCTURE	CONFORMS
LOSS ON DRYING	NMT 1.0%	0.2%
PURITY BY THIN LAYER CHROMATOGRAPHY	NLT 98%	>99%
PURITY BY PERCHLORIC ACID TITRATION	NLT 97.5%	98.5%*
SHELF LIFE	5 YEARS	NOVEMBER 2010
NOTE	* ANHYDROUS BASIS	
QC ACCEPTANCE DATE		NOVEMBER 2005
PRODUCT CROSS REFERENCE INFORMATION		REPLACEMENT FOR ALDRICH #217824

Last 5 Products View
A0638 (Sigma)

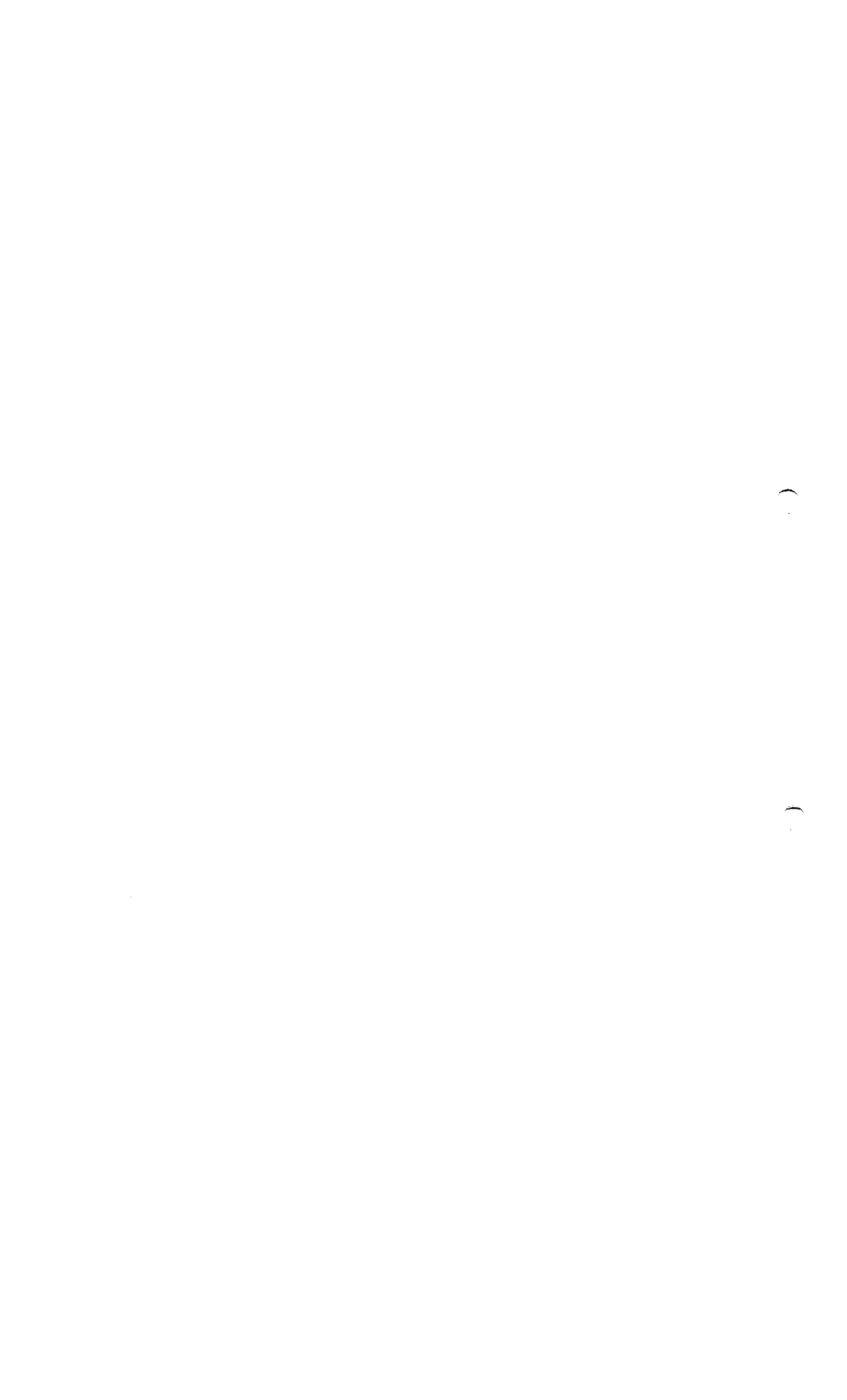
Lori Schulz, Manager
Analytical Services
St. Louis, Missouri USA

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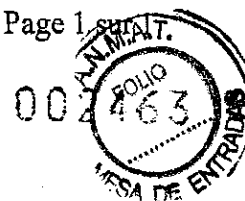


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Certificate of Analysis - DNA Micrococcus Luteus - PRP-T

	
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SIGMA-ALDRICH

Certificate of Analysis

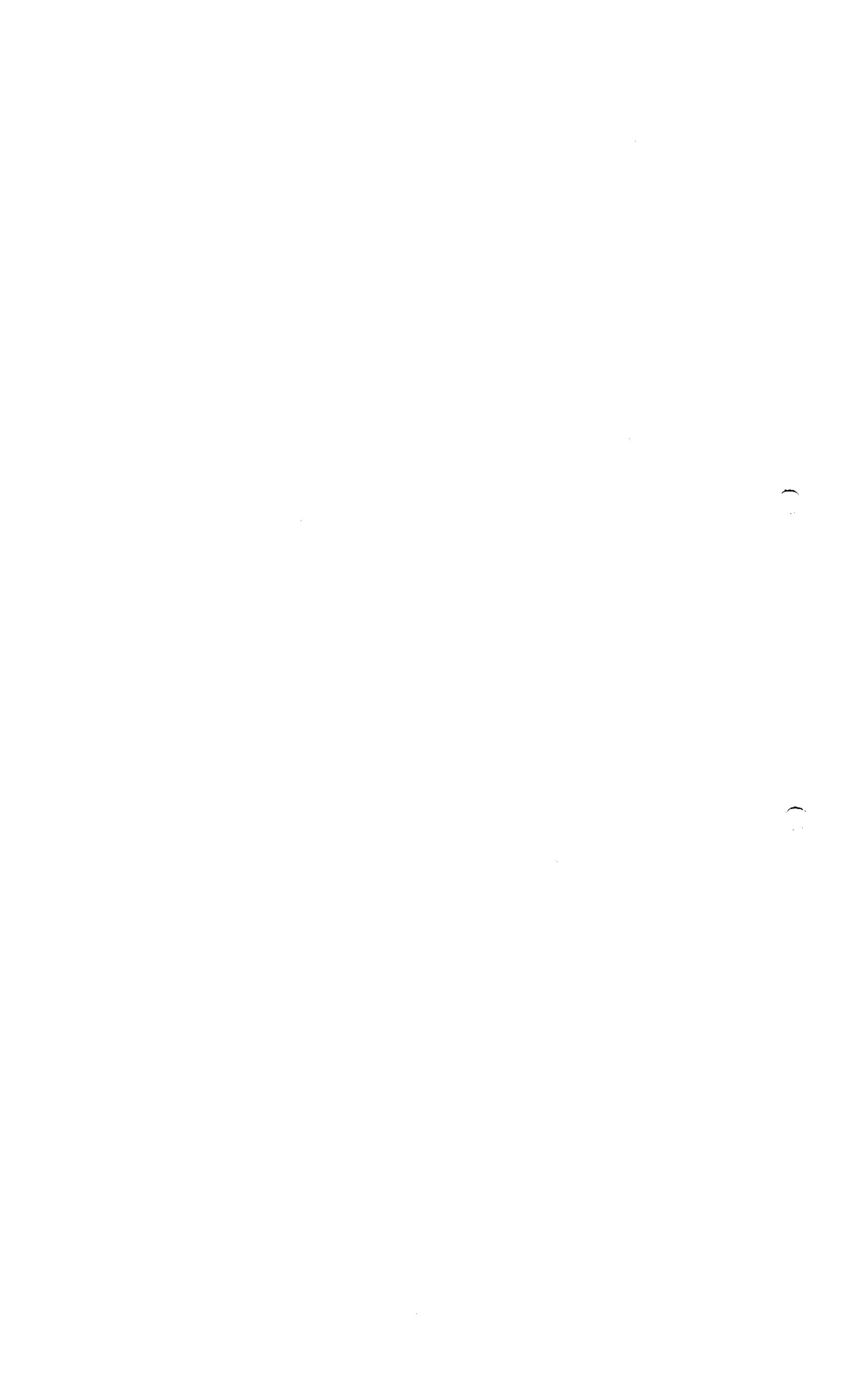
Product Name	Deoxyribonucleic acid from <i>Micrococcus luteus</i> (<i>lysodeikticus</i>), Type XI, Highly polymerized
Product Number	D8259
Product Brand	Sigma
CAS Number	9007-49-2
Storage Temp	2-8°C
TEST	LOT 053K4083 RESULTS
APPEARANCE	WHITE POWDER WITH A TAN CAST
SOLUBILITY	SLIGHTLY HAZY COLORLESS VISCOUS SOLUTION AT 1 MG PER ML OF WATER .
UV ABSORBANCE UNITS	16.2 A260 UNITS/MG SOLID
UNIT DEFINITION	ONE UNIT WILL YIELD AN A260 OF 1.0 IN 1.0 ML OF 15 MM SODIUM CHLORIDE AND 1.5 MM SODIUM CITRATE, PH 7.0. (1 CM LIGHT PATH) ONE MG OF DNA IS EQUIVALENT TO APPROX. 20 A260 UNITS.
PROTEIN BY LOWRY	0.8%
AGAROSE ELECTROPHORESIS	LESS THAN 5% RNA
QC ACCEPTANCE DATE	JUNE 2003

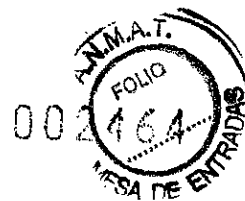
Rodney Burbach, Supervisor
Analytical Services
St. Louis, Missouri USA

J. BEAUDAN

01 SEP. 2006

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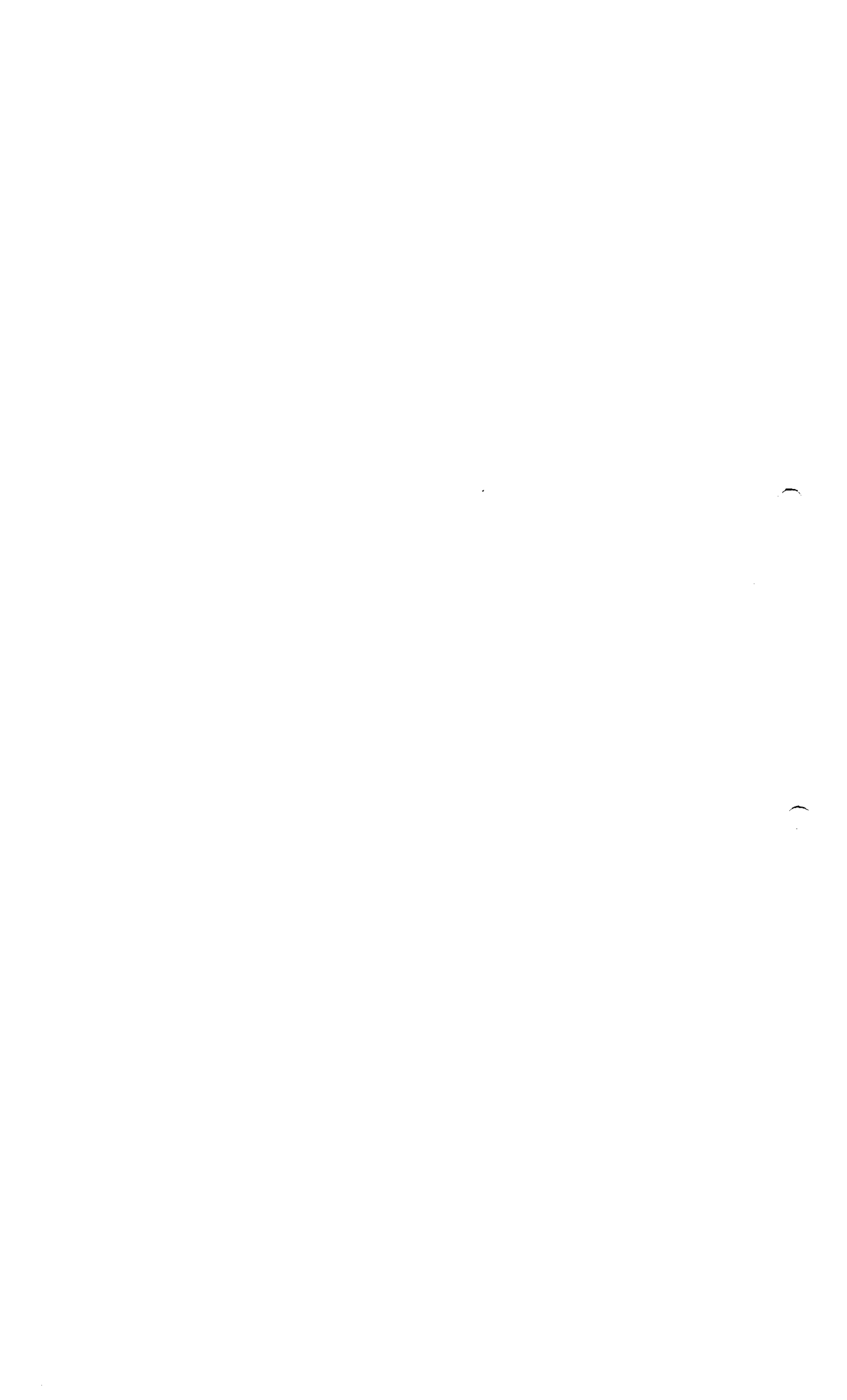


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Certificate of Analysis - Formaldehyde - PRP-T


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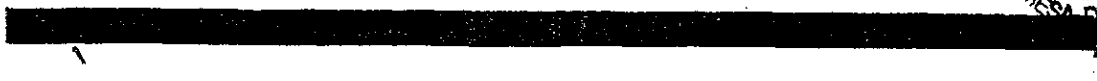


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Certificate of Analysis - Polysaccharide Pullulan - PRP-T

	
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Certificate of Analysis

Pullulan Polysaccharide

20905-4

Weight average molecular weight (GPC/LALLS) $M_w = 112,000$

Mw/Mn (GPC) = 1.12

Expires Mar 2017

Please note Polymer Laboratories Ltd. is not the original producer of this material and the data supplied.

The above characterisation data has been verified by
Polymer Laboratories Standards department.

I.M. Worrall

J.J. Davies

Issue 01 01/03/2007

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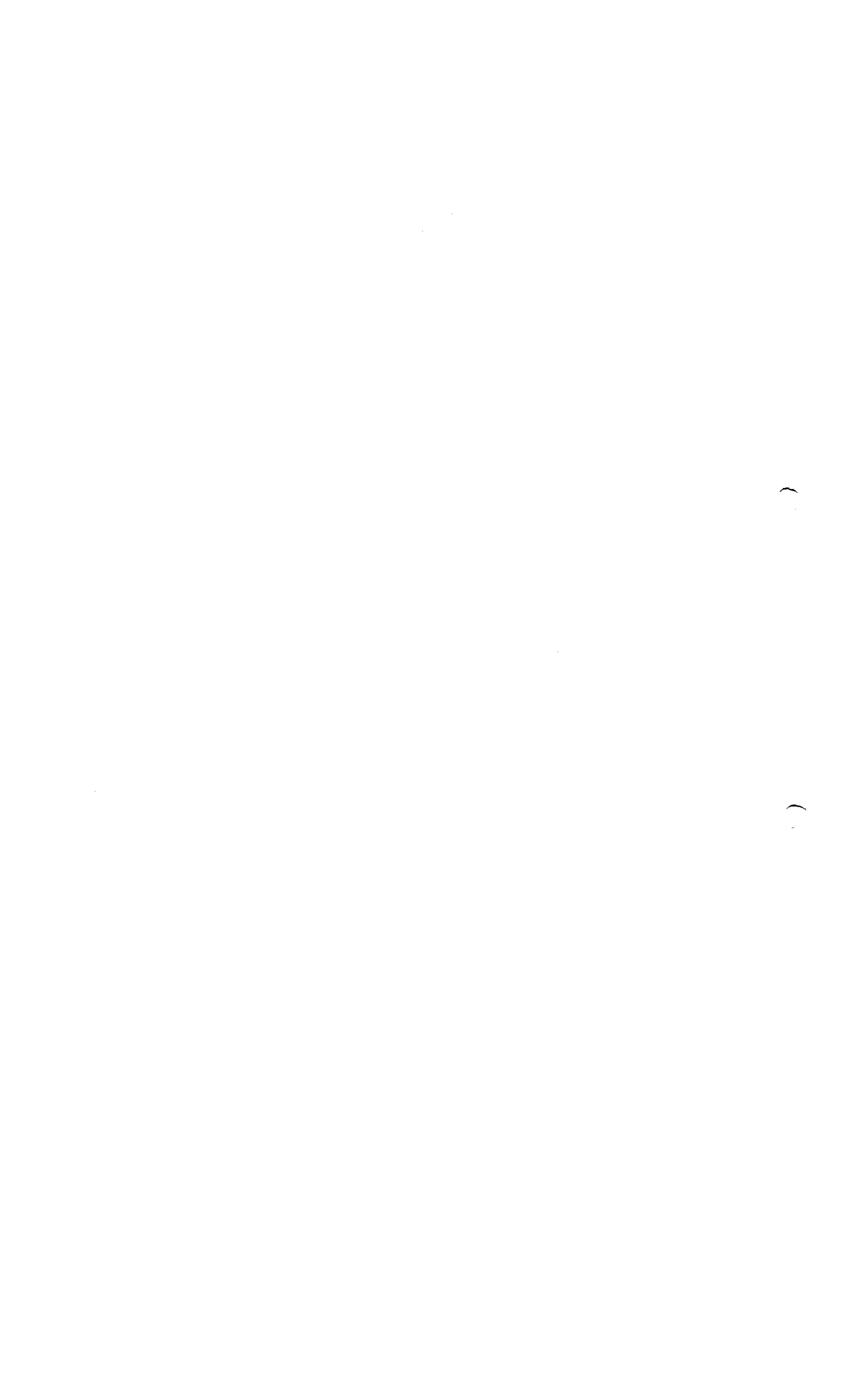


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Material Safety Data Sheet
Pullulan Poly(Saccharide)

Section 1 Chemical Product and Company Identification

MSDS Name: Pullulan Poly(Saccharide)

Synonyms:

Company Identification:

Polymer Laboratories Ltd
Essex Road
Church Stretton
Shropshire SY6 6AX, UK

In case of emergency call

UK: (01694) 723581
USA: 413-253-9554
INTL.: +44 1694 723581

Section 2 Composition, Information on Ingredients

CAS# 9057-02-7

Chemical Name: Poly(maltotriose)

Section 3 Hazards Identification

EMERGENCY OVERVIEW

Caution: This is expected to be a low hazard for usual industrial handling. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organ: None

Potential Health Effects

Eye: May cause eye irritation. The toxicological properties of this material have not been fully investigated.

Skin: May cause skin irritation. The toxicological properties of this material have not been fully investigated.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found

Section 4 First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately.

Skin: Flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical aid immediately.

Ingestion: Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth out with 2-4 cupfuls of milk or water but do not swallow. Get medical aid immediately.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid immediately.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 Firefighting Measures

General Information:

As in any fire, wear self-contained breathing apparatus in pressure-demand, MSHA / NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 6 Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up spills immediately, into a suitable disposal container observing precautions in the Protective Equipment section. Avoid creating dust and provide ventilation. Caution: Floor may be slippery.

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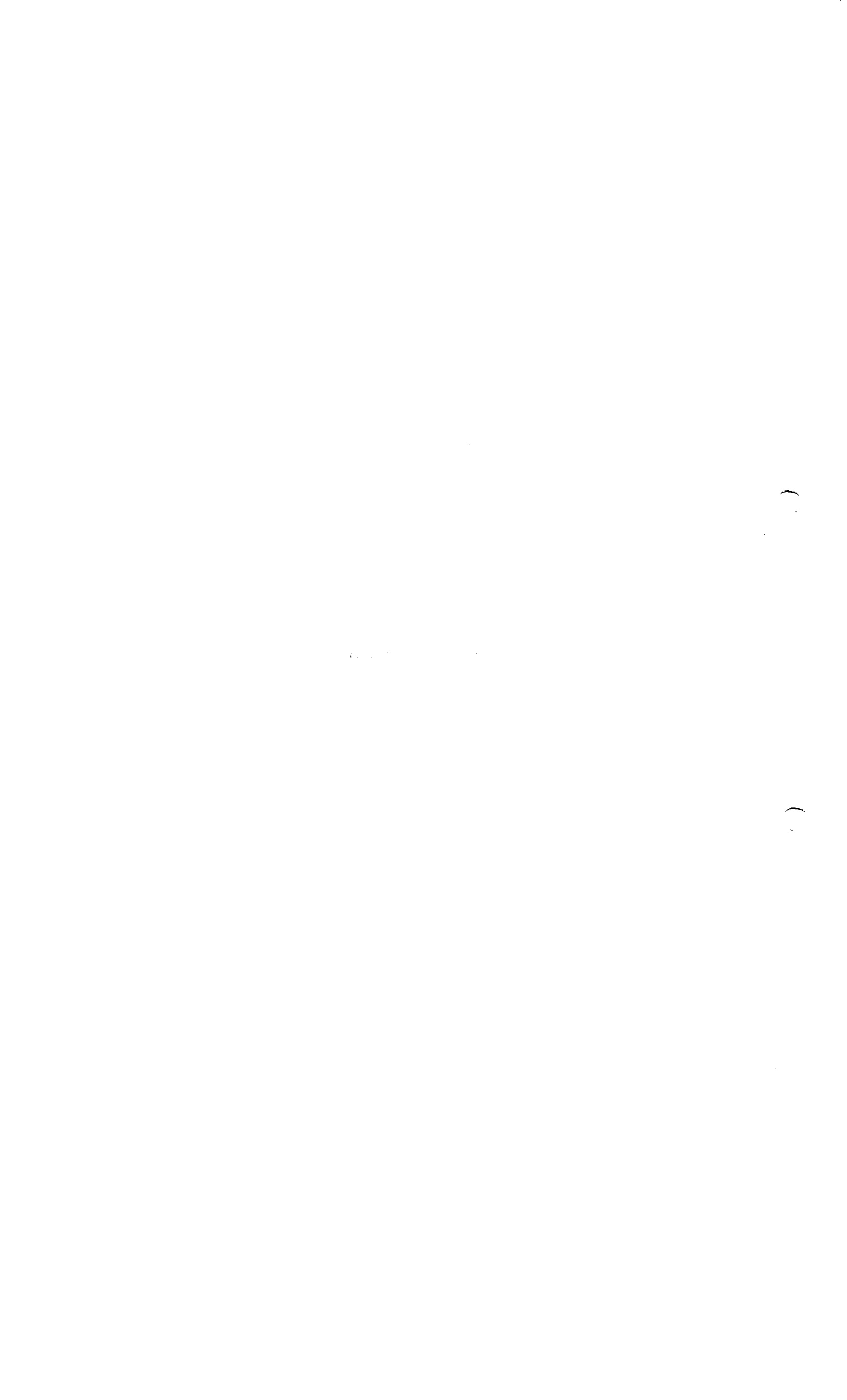
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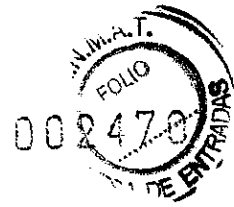
Material Safety Data Sheet Pullulan Poly(Saccharide)

Section 7	Handling and Storage
Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimise dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
Storage:	Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.
Section 8	Exposure Controls, Personal Protection
Engineering controls:	Facilities storing or utilising this material should be equipped with an eye wash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Exposure Limits:	None listed.
Personal Protective Equipment:	Wear appropriate protective eyeglasses or chemical safety goggles as described by eye and face protection regulation in European Standard EN166 and protective gloves and clothing to prevent skin exposure. A respirator protection program that meets European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.
Section 9	Physical and Chemical Properties
Appearance:	Solid
Boiling Point:	Not available
Melting Point:	Not available
Decomposition Temperature:	Not available.
Solubility:	Soluble in water.
Section 10	Stability and Reactivity
Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, dust generation, excess heat, strong oxidants.
Incompatibilities with Other Materials:	Strong oxidising agents.
Hazardous Decomposition Products:	Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerisation:	Will not occur.
Section 11	Toxicological Information
	The toxicological effects of this material have not been fully evaluated.
Section 12	Ecological Information
	No data available
Section 13	Disposal Considerations
	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste material. Methods of disposal should meet with all local, state, and federal regulations.
Section 14	Transport Information
	Not regulated as a hazardous material.
Section 15	Regulatory Information
	None of the chemicals in this product are considered highly hazardous.
Section 16	Additional Information
	Creation Date: March 2001 <i>The information above is believed to be accurate and represents the best information currently available to us. However we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes. In no way shall Polymer Laboratories Ltd be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, consequential or exemplary damages, however arising, even if Polymer Laboratories Ltd has been advised of such damages.</i>

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