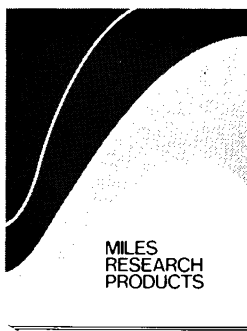


NEW FROM MILES RESEARCH PRODUCTS



AFFINITY CHROMATOGRAPHY

SPACER GELS

CHARGE-FREE SPACER GELS

The preparation of hydrazide agarose by a one step procedure was described by Lamed, Levin and Wilchek in 1973. This gel offers an amine-containing spacer support that is free of charges at neutral pH. Although particularly suited to nucleotide immobilization, it can be further derivatized to increase its versatility.

Capitalizing on the advantages of the hydrazide materials, Wilchek and Miron in 1974 published on a further refinement using polyacrylic hydrazide. This hydrazide derivative retains the properties of acrylamide polymers, as well as of agarose in that it lacks charged groups even after coupling of the ligand. Through use of this material a multi-point attachment is possible thus reducing leaching difficulties.

- ADIPIC-HYDRAZIDE-AGAROSE**
Has hydrazide groups on a C₆ spacer for coupling of ligands containing free carboxylic groups or insolubilization of periodate oxidized nucleotides.
- SUCCINYL-ADIPIC-HYDRAZIDE AGAROSE**
Succinyl derivative with carboxylic groups for coupling to ligands containing free amino groups.
- POLYACRYLIC-HYDRAZIDE-AGAROSE**
Has hydrazide groups on a linear polymer of polyacrylate.
- SUCCINYL-POLYACRYLIC-HYDRAZIDE AGAROSE**
A carboxylic derivative of the above referenced product for coupling of ligands with free amino groups.

Description	Code No.	Pkg. Size
Adipic Hydrazide Agarose	62-074-1	*50 ml
Succinyl Adipic Hydrazide Agarose	62-075-1	*50 ml
Polyacrylic Hydrazide Agarose	62-076-1	*50 ml
Succinyl Polyacrylic Hydrazide Agarose	62-077-1	*50 ml

*Settled gel volume

SPACER GELS

MULTIVALENT HYDROPHILIC SPACER GELS

In 1973 Wilchek described the preparation and use of poly-L-lysine agarose and poly-DL-alanine poly-L-lysine agarose derivatives. These gels offer the advantages of introducing a multi-point attached hydrophilic spacer arm. Thus, spacer-ligand leaching is reduced and non-specific interactions with the gel are minimized.

- POLY-L-LYSINE AGAROSE (PL-AGAROSE)**
Has free amino groups for coupling to ligands containing carboxylic groups.
- SUCCINYL-POLY-L-LYSINE AGAROSE (SPL-AGAROSE)**
Has free carboxyl groups to enable coupling to ligands containing free amino groups.
- POLY-DL-ALANINE POLY-L-LYSINE AGAROSE (PAL-AGAROSE)**
Multivalent, hydrophilic spacer gel with amino groups far removed from the matrix.
- SUCCINYL-POLY-DL-ALANINE-POLY-L-LYSINE AGAROSE (SPAL-AGAROSE)**
Carboxyl derivative for coupling to ligands containing free amino groups.

Description	Code No.	Pkg. Size
PL-AGAROSE	62-070-1	*50 ml
SPL-AGAROSE	62-071-1	*50 ml
PAL-AGAROSE	62-072-1	*50 ml
SPAL-AGAROSE	62-073-1	*50 ml

*Settled gel volume

SHALTIEL HYDROPHOBIC CHROMATOGRAPHY KITS

Prof. Shaltiel and co-workers at the Weizmann Institute of Science have introduced the use of homologous series of hydrocarbon-coated agaroses* for separation and purification of proteins. This approach makes use of differences in sizes and distribution of available hydrophobic pockets or regions in proteins, and of lipophilic interactions between these pockets and hydrocarbon chains in the agarose beads.

Kit I. Alkyl-Agaroses

The kit consists of six pre-packed columns containing 1 ml of an alkyl agarose of the general formula Agarose-(CH₂)_n-H, where n = 0, 2, 4, 6, 8 and 10.

Kit II. ω-Amino Alkyl Agaroses

The kit consists of five pre-packed columns containing 1 ml of an ω-amino alkyl agarose of the general formula Agarose-(CH₂)_n-NH₂ where n = 2, 4, 6, 8 and 10, and one underivatized agarose control column. Each kit contains detailed instructions and can be used to determine the appropriate gel for preparative work. Individual components are available in larger quantities. Please inquire concerning your specific needs.

Description	Code No.	Pkg. Size
Hydrophobic Chromatography Kit I.	62-060-1	1 Kit
Hydrophobic Chromatography Kit II.	62-085-1	1 Kit

Each kit contains 6 columns

*U.S. Patent No. 3,917,527

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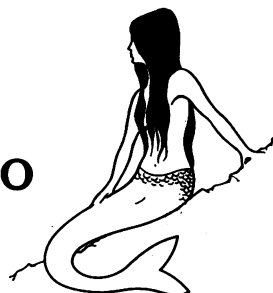
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Product analysis

	Accept	Reject
NAD (enz)	✓	
NAD (CN-Complex)	✓	
NAD (abs. 260nm)	✓	
H ₂ O (Fischer)	✓	
Fe	✓	
Ethanol	✓	

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Bottling in-process control

Re-test of packaged goods

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Passed **M.L.R.**

Product analysis results:
 NAD (enz) 90.8%
 NAD (CN-Complex) 93.5%
 NAD (abs. 260nm) 94.5%
 H₂O (Fischer) 4.3%
 Fe 13.5ppm
 Ethanol 0.053%

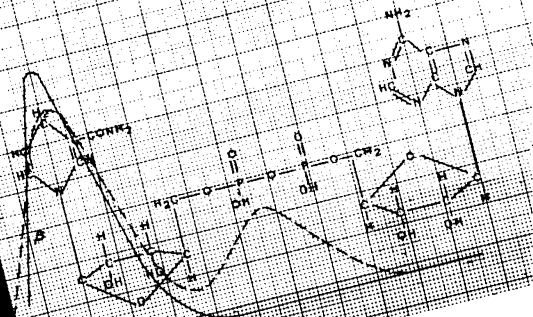
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