HIGH GEL STRENGTH AGAROSE

- High Resolution Separations for DNA/RNA
- Large-Pore Gels at Lower Concentrations than Standard Agaroses for the Separation of:
  - *High Molecular Weight Nucleic Acids*
  - *Certain Chromosomes*
  - *Viruses*
  - *Ribosomes*
- Low Ethidium Bromide Staining Background for Lower Detection Sensitivities
- Gels Dissolve in Chaotropic Salts for DNA Fragment Purification
- Reduction of Inhibitors to Restriction Enzymes and Ligases
- No Detectable DNases

EXCLU-SIEVE™ High Gel Strength Agarose Specifications:

Gelling Temperature (1% gel)	**36 ± 1.5°C**
Melting Temperature (1.5% gel)	**87 ± 2.0°C**
Moisture	**≤ 7.0%**
Sulfate	**≤ 0.12%**
Electroendosmosis (EEO)	**≤ 0.12**
Gel Strength (1% gel)	**≥ 1800 g/cm^2**
Gel Strength (1.5% gel)	**≥ 3200 g/cm^2**

LOW MELT AGAROSE

- Resilient Gels for Safer Handling
- Higher Gel Strength than Other Low Melt Agaroses
- Smaller Exclusion Limit for Better Resolution of Small DNA Fragments (<500bp)
- High Gel Clarity
- Low Background During Fluorescent Staining

EXCLU-SIEVE™ Low Melt Agarose Specifications:

Gelling Temperature (1% gel)	**24-28° C**
Melting Temperature (1.5% gel)	**≤ 65.5° C**
Moisture	**≤ 7.0%**
Sulfate	**≤ 0.10%**
Electroendosmosis (EEO)	**≤ 0.12**
Gel Strength (1% gel)	**≥ 250 g/cm^2**
Gel Strength (1.5% gel)	**≥ 500 g/cm^2**

HIGH RESOLUTION AGAROSE

- High Resolution of PCR[2] Products and the Smallest DNA Fragments (<200 bp)
- High Gel Strength for Safer Handling
- High Gel Clarity
- Low Background During Fluorescent Staining

EXCLU-SIEVE™ High Resolution Agarose Specifications:

Gelling Temperature (3.0% gel)	**<55°C**
Melting Temperature (3.0% gel)	**<75°C**
Moisture	**≤ 7.0%**
Sulfate	**≤ 0.10%**
Electroendosmosis (EEO)	**≤ 0.12**
Gel Strength (1.5% gel)	**≥ 750 g/cm^2**
Gel Strength (3.0% gel)	**≥ 1500 g/cm^2**

The Nest Group, Inc. Tel: 800-347-6378 or 508-481-6223 Fax: 508-485-5736
45 Valley Road, Southborough, MA 01772 Email: nestgrp@world.std.co http://world.std.com/~nestgrp

"FROM OCEAN TO LAB"...EXCLU-SIEVE™ *Agarose*

EXCLU-SIEVE™ Agaroses are high quality agaroses which form resilient gels and give the highest electrophoretic resolution. *"FROM OCEAN TO LAB"* denotes that our agarose is derived from red seaweed, fresh from the ocean. This minimizes the degradation of the agarose polymer to ensure that gel quality is uncompromised. Processing directly from seaweed is particularly important in order to preserve the *High Gel Strength* properties necessary for easy handling and for durable gels, unlike the agarose products derived from agar which some major suppliers use. Our goal is to provide high quality agaroses at competitive prices, so each time you use these gels in your research you will be confident your choice will be rewarded with excellent results.

EXCLU-SIEVE™ Agaroses for all DNA Applications

EXCLU-SIEVE™ Agarose Type	% Concentration	Range of Resolution[1] DNA (BPS)	Suggested Applications	Equivalent Agaroses[3]
High Gel Strength	0.50	1.0 - 25.0 Kb	• Plasmid • Analytical DNA/RNA	SeaKem® LE Agarose SeaKem® Gold Agarose
	0.75	0.5 - 12.0 Kb	• Preparative DNA/RNA • Pulse Field Gel • Southern & Northern Blots	I.D.NA® Agarose SeaKem® GTG® Agarose
	1.00	0.3 - 8.0 Kb	• Low Concentration Gels	
Low Melt	0.50	0.5 - 12.0 Kb	• Analytical DNA/RNA • Preparative DNA/RNA	SeaPlaque® Agarose
	1.00	0.2 - 8.0 Kb	• Agarose gel plugs for preparing chromosomal DNA	SeaPlaque® GTG® Agarose
	2.00	0.07 - 4.0 Kb	• In-gel DNA enzymatic modification reactions and cloning	InCert® Agarose
High Resolution	3.00	80 - 500 bp	• Southern & Northern Blots • In-gel DNA enzymatic modification reactions and cloning • Resolution of Small DNA, RNA and PCR[2] fragments for analytical and preparative	NuSieve® GTG®
	4.00	30 - 200 bp		NuSieve® 3:1
	5.00	10 - 200 bp		MetaPhor®

Ordering Information for EXCLU-SIEVE™ Agarose Gels:

	Amount/pkg	Part Number	Price
High Gel Strength Agarose	5g	AHGS0005	$ 15
	100g	AHGS0100	$210
	500g	AHGS0500	$350
	1 Kg	AHGS1000	$600
Low Melt Agarose	5g	ALM005	$ 25
	25g	ALM025	$ 80
	100g	ALM100	$225
	250g	ALM250	$500
High Resolution Agarose	25g	AHR025	$ 50
	100g	AHR100	$150
	500g	AHR500	$725

To place an order, please call 800-347-6378!

1 Resolution of DNA fragments is dependent on: buffer (TAE vs. TBE), configuration (horizontal vs. vertical), voltage, sample concentration, amount of salt in sample, gel curation time and temperature of electrophoresis.
2 Polymerase Chain Reaction (PCR) is covered by U.S. Patents owned by Hoffmann-LaRoche, Inc. Use of the PCR technology requires a license.
3 The following are trade marks of FMC Corporation; SeaKem CTC, I.D.NA, InCert, SeaPlaque, NuSieve, MetaPhor.

Prices effective January 26; 2000 subject to change without notice.

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