Owi Agarose Molecular Grade - Low EEO

Technical Data Sheet

References: 258475 - 258475E

For RESEARCH USE ONLY

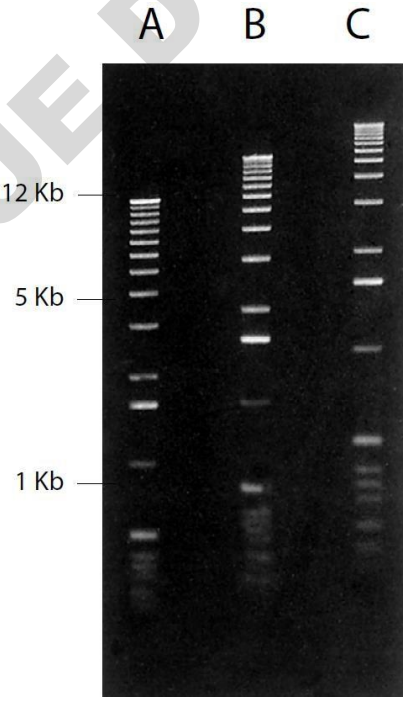
SIZE: 500g / 10g

STORAGE: 2-25°C

SHELF-LIFE: 48 months

PRODUCT DESCRIPTION:

Owi Agarose Molecular Grade is a low EEO (electroendosmosis) and molecular biology grade agarose, for the migration of nucleic acids by electrophoresis and protein electrophoresis such as radial immunodiffusion of fragments from 0,1 kbp to 20 kbp.



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PRODUCT SPECIFICATION:

Moisture >10%
EEO: 0,05-0,13
Sulfates >0,1%
DNase/RNase activity: none detected Gel strength at 1% (g/cm2): > 1 200
Gel strength at 1,5% (g/cm2): > 2 500
Gelification temperature (°C): 36 ± 1.5
Fusion temperature (°C): 88 ± 1.5

LIST OF COMPONENTS:

Agarose

PRECAUTION FOR SAFE MANIPULATION:

1. Avoid sources of heat, static electricity during storage.
2. Use individual protection equipment when using the product:
   - Protective gloves.
   - Protective glasses.
   - Work clothing.

USER GUIDE:

Recommended agarose concentrations for nucleic acid separation range from 0.5% to 4%. Higher concentrations allow for the separation of smaller nucleic acid fragments.
Migration buffer containing TAE 1X (Tris-Acetate-EDTA) or TBE 0,5X or 1X (Tris-Borate-EDTA) can be used regarding to the DNA fragment length:

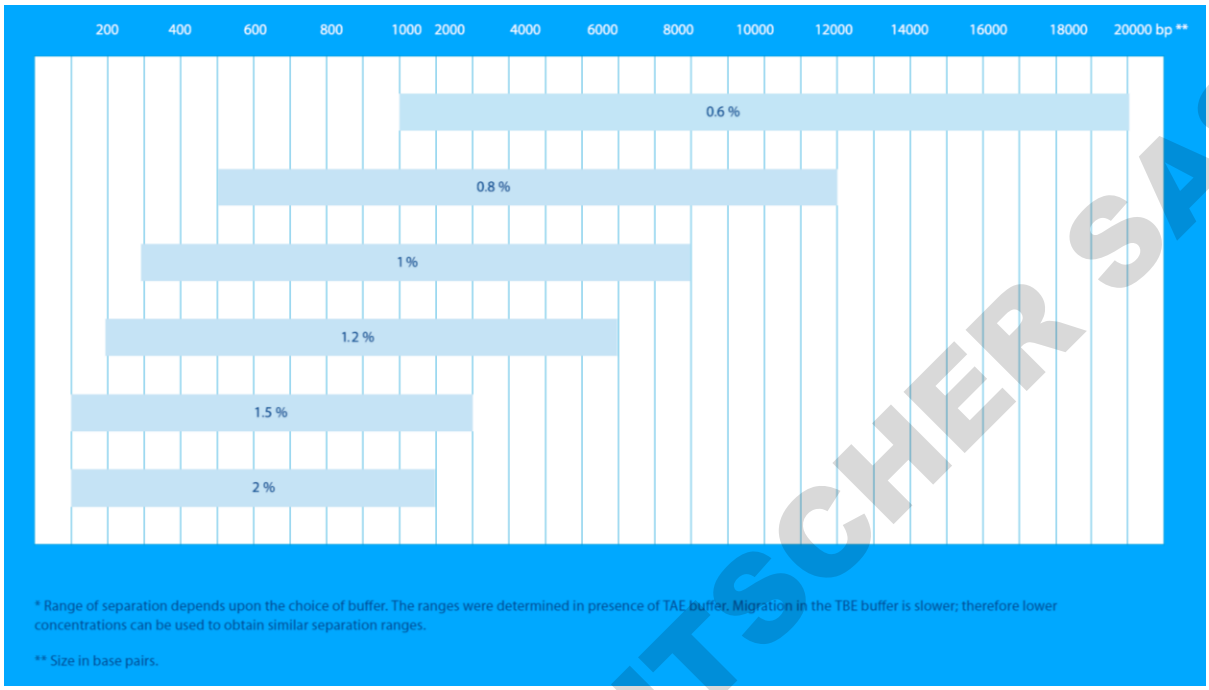
- TAE is recommended for long fragments (>10kb) separation.
- TBE is recommended for short fragments (>1kb) separation.

For optimal resolution, a gel thickness of 3–4 mm is recommended.

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RANGE OF SEPARATION FOR OWI AGAROSE MOLECULAR GRADE - LOW EEO



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