

## I.D.NA™ Agarose

A high gel strength fast running agarose for superior resolution of DNA fragments under DNA identity testing conditions

### Certificate of Performance

#### Chemical and Physical Specifications:

1. Gelling temp., 1.5%	$\frac{\checkmark}{\text{---}}$	36±1.5°C
2. Moisture:	$\frac{\checkmark}{\text{---}}$	≤10%
3. Sulfate:	$\frac{\checkmark}{\text{---}}$	≤0.15%
4. Gel Strength, (1%):	$\frac{\checkmark}{\text{---}}$	≥1300 g/cm <sup>2</sup>
5. EEO (-m):	$\frac{\checkmark}{\text{---}}$	≤0.10
6. RNase:	$\frac{\checkmark}{\text{---}}$	None detected
7. DNase:	$\frac{\checkmark}{\text{---}}$	None detected
8. DNA Binding:	$\frac{\checkmark}{\text{---}}$	None detected

DNA Markers, electrophoresed on a 1% I.D.NA™ Agarose gel, are finely resolved without smearing and quantitatively retained.

#### References:

Budowle, B., Adams, D.E., and Allen, R.C.,  
"Fragment Length Polymorphisms for Forensic Science Applications,"

**Methods in Nucleic Acid Research**, 181-202, Edited by Karam, J.D., Chao, L, and Warr, G.W. Baton Rouge, Florida: CRC Press, Inc., 1991. Budowle, B. and Baechtel, S.S., "Modifications to improve RFLP Typing",

**Applied & Theoretical Electrophoresis**, 1, 181-187.

#### Dissolving I.D.NA™ Agarose

##### Boiling Water Bath Procedure

1. Weigh out agarose.
2. Tare beaker containing a magnetic stir bar.
3. Add a measured volume of buffer (or distilled water) at room temperature to the beaker.
4. Slowly sprinkle the agarose into the room temperature buffer with continuous stirring.
5. Allow the agarose particles to disperse completely.
6. Weigh the beaker and its contents (buffer, agarose, and stir bar.)
7. Cover the beaker with plastic wrap.
8. Punch a hole to the walls prevent pressure buildup.
9. Heat the solution to boiling while stirring, then maintain gentle boiling for 10 minutes.
10. Remove the plastic wrap from the beaker and adjust the weight of the solution to the desired final weight with hot distilled water.
11. Mix and cool to 60°C before casting the gel.

##### Microwave Procedure

1. Weigh out agarose.
2. Tare beaker or wide-mouthed flask containing a magnetic stir bar.
3. Add room temperature buffer (or distilled water) to the vessel. Be sure to choose a vessel that is 2-4 times the volume of solution.
4. Slowly sprinkle the agarose powder into the buffer with constant stirring.
5. Using a glass rod, break up and disperse any agarose clumps and scrape down any powder adhered to the walls of the flask. Stir for a minimum of 3 minutes. Remove magnetic stir bar, if used.
6. Cover the flask with plastic wrap and pierce a small hole in from the plastic as a steam vent.
7. Weigh the flask and its contents.
8. Heat covered flask in the microwave oven on high power setting (100%) for 2 minutes.
9. Remove container from oven and gently swirl to resuspend settled powder and gel pieces.
10. Reheat on high for 2 minutes, until the solution comes to a boil. Hold at boiling point for 1 minute, until all particles are dissolved.
11. Remove from microwave. Gently swirl to thoroughly mix the agarose solution.
12. Remove the plastic wrap from the flask and adjust the weight of the solution to the desired final weight with hot distilled water.
13. Mix and cool to 60°C before casting.

##### Warranty

Because of the numerous factors affecting results, Lonza Agarose is sold with the understanding that purchasers will make their own tests to determine the suitability of this product for their particular purposes. The several uses suggested by Lonza, are presented only to assist our customers in exploring possible applications for this product. All information and data presented are believed to be accurate and reliable but are presented without the assumption of any liability by Lonza. All products are sold subject to the standard terms and conditions and limitations contained on our order acknowledgment.

##### Patent Position

Lonza does not warrant against infringements of patents of third parties by reason of any uses made of the product in combination with other material or in the operation of any process, and purchasers assume all risks of patent infringement by reason of any such use, combination, or operation.

## Product Safety

There are no demonstrated acute hazards for agaroses. A Material Safety Data Sheet (MSDS) is available upon request; call (800) 638-8174 or go to our website [www.Lonza.com](http://www.Lonza.com). Emergency number after hours, call collect (202) 483-7616.

## Ordering Information

Catalog No	Description	Size
50170	I.D.NA™ Agarose	125 g

## Related Products

AccuGENE™ TBE Buffer

**For Laboratory Use.  
Derived from Agar.**

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