

DATA SHEET

Version: 03
Revision date: 27/03/2023

1. Identification

Product name	AgaPure™ GreenSafe Agarose Tablets (Standard Agarose with integrated GreenSafe DNA stain) 100 tablets
Cat. No	AGT003

2. Description

AgaPure™-GreenSafe Agarose Tablets are packed in a convenient blister pack. Each Tablet contains a predetermined amount of standard melting point agarose (0.5g) and perfect amount of **GreenSafe DNA dye**.

Standard Agarose forms very clear gels with all standard running buffers and will result in a sharp and clear separation of your bio molecules. Extremely pure agarose with very low interference binding to staining reagents which produces a low background and high contrast appearance after staining. This is especially important to obtain sharp and well-defined DNA and/or RNA bands with the highest sensitivity in the low molecular weight range.

The high quality of agarose allows the good detection of small DNA bands size below 100 bp.

3. Composition

Item	Quantity
AgaPure™ GreenSafe Agarose Tablets	100Tx0.5g

4. Features

- ✓ DNase/RNase-free - for all nucleic acid separation
- ✓ Exactly preweighed tablets - for convenient and time saving
- ✓ GreenSafe DNA Stain is already included in the tablet, eliminating the need to add an additional DNA stain.
- ✓ Fast dissolving protocol

5. Storage specifications

Store the agarose Tablet at room temperature protected from light and moisture.

6. Applications

- ✓ DNA/RNA Electrophoresis.
- ✓ Ideal for separating nucleic acids of a wide range of sizes.
- ✓ Excellent for all blotting applications.
- ✓ Purification of DNA fragments from the gel for further molecular biology applications.
- ✓ Southern and Northern blotting.
- ✓ Immunoelectrophoresis.

7. Specifications

- ✓ Melting Point (1.5%): 88 ±1.5°C
- ✓ Separation range: 100 bp to >30 kb
- ✓ Product size: 100 tablets (0.5 g each)
- ✓ **GreenSafe DNA Stain** is a non-carcinogenic alternative to ethidium bromide.



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8. Further information

- Product Use Limitations** This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.
- Disclaimer** The information provided in this Data Sheet is correct to the best of our knowledge and belief at the date of publication. This information is intended only as a guide and should not be taken as a warranty or quality specification. Canvax Reagents S.L.U. shall not be held liable for any damage resulting from handling or from contact with the above product.

9. Preparation of the gel

1. Use the bottle or flask that is at least 3 times of the volume of the solution being prepared.
2. Add an appropriate number of agarose tablets in the running buffer according to table below to achieve needed gel percentage and soak tablet in buffer for 3-4 minutes (or until it is dissolved) before heating.

For tablet dissolving use running buffer which is at room temperature. Do not use hot buffer for dissolving the tablet

3. Heat the solution until it is clear and visually all the particles are dissolved.
4. Cool the solution to 60°C.
5. Cast the gel following the instructions provided for your casting apparatus.
6. The thickness of gel should be 0.5cm – 0.7cm.
7. Run the gel in the appropriate buffer.
8. Detect the bands under Blue light or UV illuminator.

Gel %	1 tablet	2 tablets	3 tablets
0.7%	71ml	143 ml	214 ml
1%	50 ml	100 ml	150 ml
1.2%	42 ml	83 ml	125 ml
1.3%	38 ml	77 ml	115 ml
1,5%	33 ml	66 ml	100 ml
1.8%	28 ml	56 ml	83 ml
2%	25 ml	50 ml	75 ml

Volumes are rounded up or down to the nearest whole ml

Recommended agarose percentage for DNA separation					
Gel%	0.7	0.9	1.2	1.5	2.0
Size (Kb)	10-0.8	7-0.5	6-0.4	4-0.2	3-0.1

