

Atlas ClearSight Agarose Tablets

Cat. No.	Pack Size
BA50202	100 x 0.5 g
BAS0041	2 x 0.5 g SAMPLE

Storage & Shipping:

Store at RT, shipping at room temperature.

Applications:

- Ideal for routine DNA and RNA gel electrophoresis and blotting assays
- Convenient tablet format—no messy weighing required
- Fast dissolving protocol
- Used dye is non-carcinogenic alternative to Ethidium bromide.

Specification:

Melting point: $88 \pm 1,5$ °C

Separation range: 100 bp to >30 kb

Product size: 100 tablets (0.5 g each)

Description:

Each Atlas ClearSight Agarose Tablet contains a pre-determined amount of standard melting point agarose, eliminating the need to weigh out loose agarose powder and perfect amount of Atlas ClearSight DNA dye.

Atlas ClearSight Agarose Tablets are packed in a convenient blister pack.

This composition is optimized to yield high resolution of sharp DNA bands with high sensitivity and low background.

Atlas ClearSight DNA Stain emits green fluorescence when bound to DNA or RNA. It has two secondary fluorescence excitation peaks (~270 nm; ~290 nm) and one strong excitation peak centered around 490 nm. The fluorescence emission is centered at ~530 nm. Thus, Atlas ClearSight DNA Stain is compatible with a wide variety of gel reading instruments.

The purity of the agarose leads to an excellent transparency and a low background. 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.

Protocol:

- Use the bottle or flask that is at least 3 times of the volume of the solution being prepared.
- Add an appropriate number of agarose tablets in the **running buffer**. See the table below to achieve needed gel percentage.

Do NOT use hot buffer for dissolving the tablet

Gel %	1 tablet	2 tablets	3 tablets
1%	50 ml	100 ml	150 ml
1,5%	33 ml	66 ml	100 ml
2%	25 ml	50 ml	75 ml

- Soak the tablet in the running **buffer** for 3 minutes (or until it is dissolved) before heating.
- For tablet dissolving use running buffer which is at room temperature.
- Heat the solution until it is clear and visually all the particles are dissolved.
- Cool the gel to 60-70°C
- Cast the gel into the gel tray.
- The thickness of gel should be **<0.5cm**.
- Run the gel in used running buffer.

- Detect the bands under Blue light or UV illuminator.

Safety warnings and precautions:

Caution when using hot, viscous solutions! Use suitable safety gear and open bottle gently to avoid accidents.

Atlas ClearSight DNA Stain is non-carcinogenic and according to the Ames test it causes significantly fewer mutations than Ethidium bromide.

Atlas ClearSight DNA Stain is non-carcinogenic but may irritate skin and eyes.

This product is designed for research purposes and *in vitro* use only.

According to common laboratory safety practice, it is recommended to wear protective clothing, gloves and safety glasses. Please refer to www.bioatlas.com for Material Safety Data Sheet of the product.

Some applications this product is used in may require a license which is not provided by the purchase of this product. Users should obtain the license if required.