EUROMEDEX

ClearSight Gold Tablets with TAE

Cat. No.	Pack Size
EUA50402	100 x 0.5 g

Storage & Shipping:
Store at room temperature or at +4°C, protected from light.

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 ± 1,5 °C
- Separation range: 100 bp to >30 kb

Description:
Each ClearSight Gold Tablet with TAE contains:
- pre-determined amount of standard melting point agarose (0.325g)
- perfect amount of ClearSight **Gold** DNA Stain
- TAE powder (0.175 g)

ClearSight Gold Tablets with TAE 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.
ClearSight Gold DNA Stain emits green fluorescence when bound to DNA or RNA. It emits green fluorescence when bound to DNA or RNA. It has two fluorescent excitation maxima of ~250 and ~482 nm, and an emission maximum of ~509 nm. Thus, ClearSight Gold 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.

Safety:
Caution when using hot, viscous solutions! Use suitable safety gear and open bottle gently to avoid accidents.
ClearSight Gold DNA Stain is non-carcinogenic and according to the Ames test it causes significantly fewer mutations than Ethidium bromide.

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 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
0.8 %	40.5 ml	81 ml	121.5 ml
1 %	32.5 ml	65 ml	97.5 ml
1.2 %	27 ml	54 ml	81 ml
1.5 %	21.5 ml	43 ml	64.5 ml
2 %	16.25 ml	32.5 ml	48.75 ml

- Soak the tablet in the running **buffer** for 1-3 minutes (or until it is dissolved) before heating.
- For tablet dissolving use TAE running buffer which is at room temperature.
- Heat the solution until it is clear and visually all the particles are dissolved.

Notes:
ClearSight Gold DNA Stain is non-carcinogenic but may irritate skin and eyes. Please wear gloves whilehanding.

Safety warnings and precautions:
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 andsafety glasses.
Some applications this product is used in may require a license which is not provided by the purchase of thisproduct. Users should obtain the license if required.

EUROMEDEX
24, rue des Tuileries
BP684 67460 SOUFFELWEYERSHEIM
Tél.: 03 88 18 07 22 Fax.: 03 88 18 07 25
www.euromedex.com / research@euromedex.com