EUROMEDEX

ClearSight Tablets with TBE

Cat. No.	Pack Size
EUA50204	**100 x 0.5 g**

Description:
ClearSight Tablets contain everything necessary for an easy preparation of an agarose gel in desired gel percentage.
ClearSight Tablets are packed in a convenient blister pack.

Applications:
• Ideal for routine DNA and RNA gel electrophoresis and blotting assays.
• Used dye is non-carcinogenic alternative to Ethidium bromide.

Composition:
• Agarose
• TBE powder
• ClearSight DNA stain

Only RT or cooler pure water is needed to add for preparation of an agarose gel.
Do NOT use hot water for dissolving the tablet
Do NOT add any buffer
This composition is optimized to yield high resolution of sharp DNA bands with high sensitivity and low background.
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, ClearSight DNA Stain is compatible with a wide variety of gel reading instruments.

Storage & Shipping:
Store at RT, protected from light, shipping at room temperature.

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

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 **water** and do **NOT** add any buffer! See the table below to achieve needed gel percentage.

Gel %	1 tablet	2 tablets
1 %	25 ml water	50 ml water
1.5 %	16 ml water	33 ml water

• Soak the tablet in the pure **water** for 3-5 minutes (or until it is dissolved) before heating.
• For tablet dissolving use water which is at room temperature, **DO NOT** use hot water.
• Heat the solution until it is clear and visually all the particles are dissolved.
• Cool the gel to 60-70ºC and cast the gel, into the gel tray.
• The thickness of gel should be **<0.5 cm**.
• Run the gel in TBE running buffer.
• Detect the bands under Blue light or UV illuminator.

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

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