
READY GEL Chamber System

Product Information on inno-TRAIN's Gel Chamber System

Art. No.: GX13190

inno-TRAIN's READY GEL Chamber System allows precise and easy gel electrophoresis separation of nucleic acids. As many as 96 PCR products (e.g. from **inno-TRAIN's** SSP systems HLA-Ready Gene and Blood Group SSPs) can be loaded quickly using a multi-channel pipette, separated and documented on a photo. The horizontal agarose gel electrophoresis runs using an optimal amount of agarose (100 ml). The gel tray is UV permeable.

COMPONENTS:

- **1 Running Chamber with Pouring Function**, horizontal
- **1 separate Pouring Tray with 2 sealing wedges**, for pouring, LxWxH: 38x20x15 cm also available separately (Art. No.: GX13191 with gel bed and combs)
- **1 UV-permeable Gel Bed**, for pouring and for the gel run, LxW: 19,5x16,5 cm also available separately (Art. No.: GX13192)
- **6 Gel Combs with 17 Teeth**, can be used with multichannel pipettes, for as many as 96 samples + 6 size markers, also available separately (Art. No.: GX13193)

ADDITIONALLY REQUIRED MATERIALS

- Agarose, e.g. **inno-TRAIN's** Agarose powder or **inno-TRAIN's** ready-to-use Liquid GenAgarose
- TBE buffer (gel running buffer), e.g. **inno-TRAIN's** 10x TBE stock solution
- Ethidium bromide[#], e.g. **inno-TRAIN's** ready-to-use EtBr in dropper bottle
- Molecular weight marker, e.g. **inno-TRAIN's** ready-to-use 100bp-ladder
- Power Supply
- UV light box,
- Photo documentation
- optional: separate Gel Tray

POURING THE GEL

- Put the gel tray in the running chamber or separate pouring tray, seal with the sealing wedges and insert clean gel combs. For longer gel runs the combs can be positioned alternatively in right and left alignment.
- Heat 2% TBE agarose gel (100 ml): **inno-TRAIN**'s ready-to-use Liquid GenAgarose (see above). Alternatively weigh 2 g of Agarose and heat with 100 ml of 1x TBE on a heated stirrer. Leave the gel to cool for a short while (approx. 2-3 minutes).
- Add ethidium bromide to the liquid agarose: 3 drops of the 0.07% solution from the dropper bottle (see above, final concentration 0.7 µg/ml), mix and pour the gel immediately. Alternatively the gel can be dyed after the gel run in an external dye bath (TBE with EtBr).
- Leave the poured gel to cool down for 20-30 minutes.
- Gel Run (see below, alternatively gel can be kept in plastic foil in a fridge for several days).

GEL RUN

- Place the gel in the running chamber with 1 x TBE as running buffer. The buffer should be 1-2 mms above the gel.
- Remove the gel combs carefully.
- Load the gel pockets with ~10 µl amplificate per gel pocket and with 3-4 µl molecular weight marker (to determine the size of the amplificate).
- Close the lid of the running chamber and connect to a power supply.
- Electrophoresis at 200 volt for 15-20 minutes.
- Switch off the power supply and take the gel out of the gel tray.

EVALUATION

- Place the gel on a UV light box ^{##}.
- A Polaroid or video system should be used for documentation.

Ethidium bromide is a mutagenic and therefore also carcogenic fluorescent dye that should only be used when wearing gloves and heeding general laboratory guidelines.

Ultraviolet light can cause burns of the skin and retina. For this reason suitable ultra violet face protection should be worn.