FluoroBox

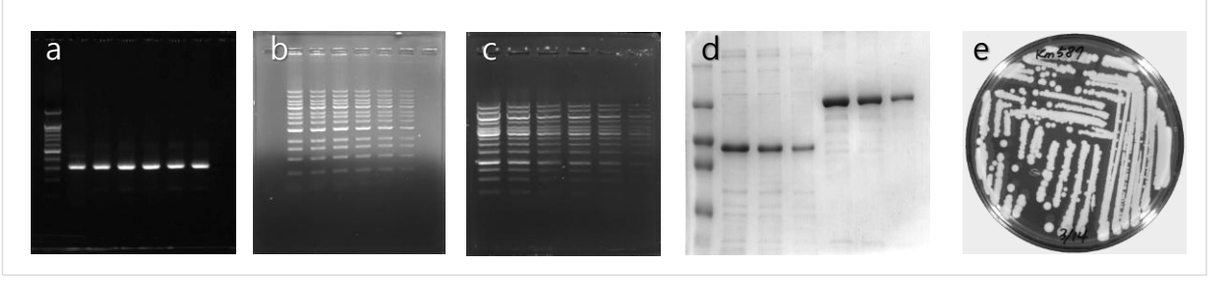
DNA gel

LED light

Fluorescent detection

FluoroBox is a device that images DNA electrophoresis gel and analyzes. FluoroBox Blue is optimized for the reagents, wavelength of 450nm~490nm, that is invented alternative to EtBr. It consists of LED light and dark room chamber. FluoroBox can also be used in conjunction with UV transilluminator. Compact size and simple design has satisfied user's convenience. Gel can be observed through the window at the top and gel cutting can be done conveniently through the doors at each side. Our simple program enables users to obtain results easily and simply quantify the DNA band.

Without camera FluoroBox



a. Plasmid DNA stained with loading type EtBr alternative reagent. b. DNA marker electrophoresed on agarose gel containing a gel mixture type of EtBr replacement reagent. c. DNA marker electrophoresed on agarose gel containing EtBr. Images obtained using a UV transilluminator and FluoroBox in combination. d. PAGE gel image. White plate, white light used. e. Petri dish image. White plate, white light used.

Specifications

Camera	1/1.8" 3.1M color CMOS, 2040 x 1520 pixels
Size (W x D x H)	260 x 260 x 400 mm
Interface connector	Standard USB 2.0
Field of View	145 x 110 mm
Light source	Blue LED
Software	Image capture, Set ROI: Manual or Automatic
Analysis	Subtract background, measuring of intensity

NEOgreen / NEOred

DNA staining reagent

(EtBr alternative reagent)

NEOgreen and NEOred are developed with the purpose of replacing EtBr. Same as the existing method, to make 100ml of Gel, 5~10ul of NEOgreen is needed. Therefore, the experimental method doesn't need to be changed. Blue light (470nm) and UV transilluminator can be used with it to observe the DNA gel

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