



Technical Data

Storage of MIDORI^{Green} Advance in Agarose

Product

Nucleic acid staining reagent MIDORI^{Green} Advance (MGA) (Cat. No. MG04)

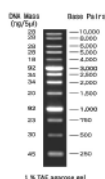
Purpose

Examine long-time storage of MIDORI^{Green} Advance agarose.

Instruments and reagents



FastGene[®]
FAS-Digi Geldoc System
(Cat No. GP-05LED)



FastGene[®]
1kb DNA Ladder
(Cat No. MWD1)



Nucleic acid staining reagent
Midori^{Green} Advance
(MGA)
(Cat No. MG04)



FastGene[®]
Agarose
(Cat No. AG02)

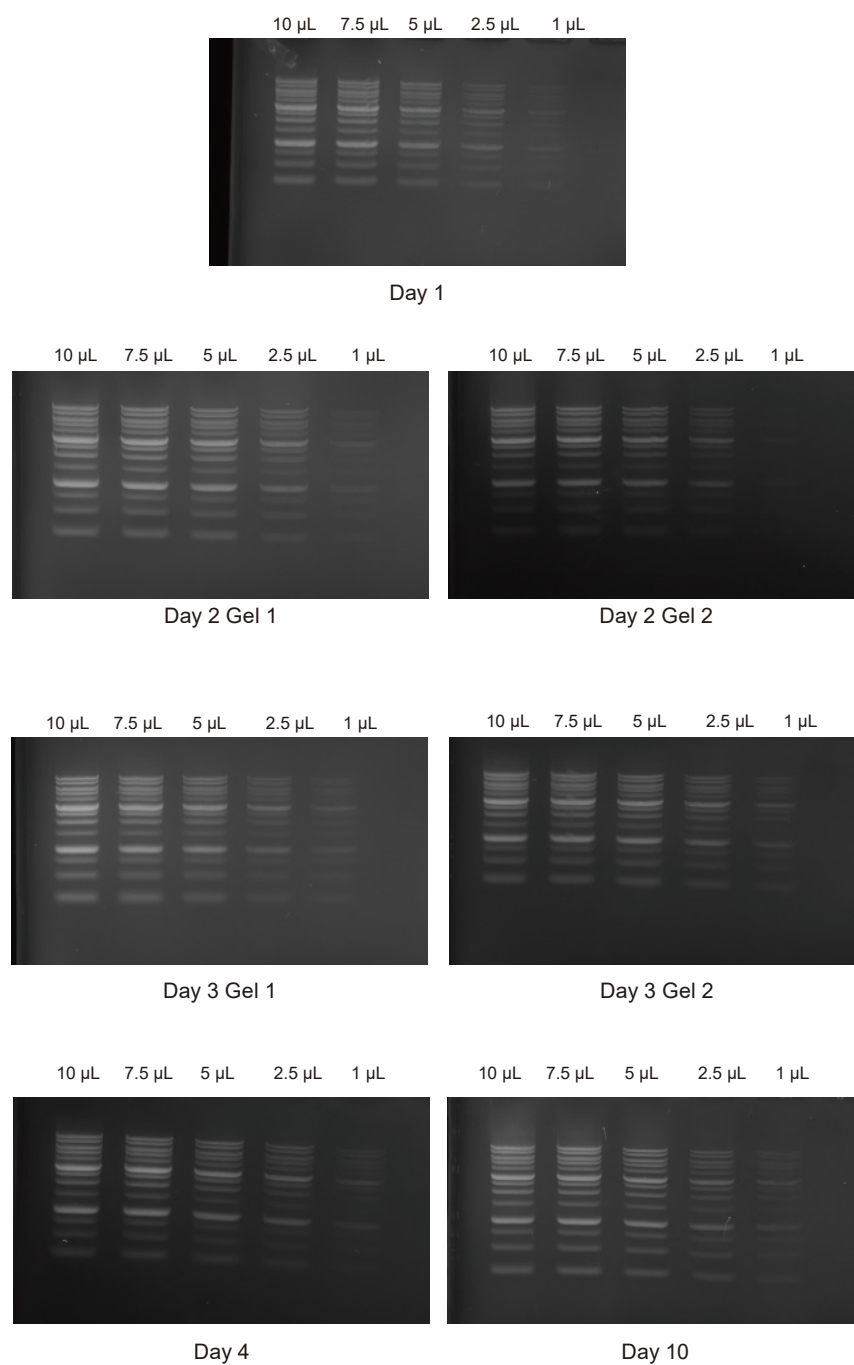
Procedure

- ① Pre-stained agarose was prepared under the following conditions:
 - Agarose gel: 1% TAE agarose gel (AG-02); around 50 mL / gel (400 mL total gel solution)
 - Nucleic acid staining reagent: MIDORI^{Green} Advance (MG04); 2 μ L / 50 mL (16 μ L / 400 mL)
- ② The pre-stained gel was used for electrophoresis under the following conditions:

The molten agarose was used to cast a gel as reference unit (day 1), the remaining stained agarose was cooled down in an aluminium wrapped bottle at 4°C. On the following days this agarose was used to cast gels (Day 2,3,4 and 10). To analyze multiple castings at one day, two gels were casted (Day 2,3). The agarose was completely cooled down, before casting the second gel.
- ③ Electrophoresis and gel imaging conditions:
 - DNA sample: 1 kb DNA ladder (MWD1) 10 μ L, 7.5 μ L, 5 μ L, 2.5 μ L, 1 μ L / lane conc. (100 ng / μ L)
 - Electrophoresis: Mupid-One Electrophoresis Unit (MU2)
135V 20min
 - Gel imaging: FastGene[®] FAS-Digi Geldoc System (GP-05 LED)



Results



Conclusion

Agarose stained with MIDORI^{Green} Advance (MG04) can be stored in a wrapped bottle at 4° C for at least 10 days. The stained agarose must be stored in the dark. The boiled agarose has to be mixed thoroughly to make sure that MIDORI^{Green} Advance is homogeneously distributed.

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