Testing Report

Testing G108 stability after reboiling previously-solidified agarose gel

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Product Description

Product Name:	SafeView Classic
Cat. Number:	G108
Lot Number:	0165835048001
Storage Condition:	-20 (°C)

Specifications

Test	Method	Results
Boiling Test	Gel electrophoresis	Up to 5 times

Detailed Method:

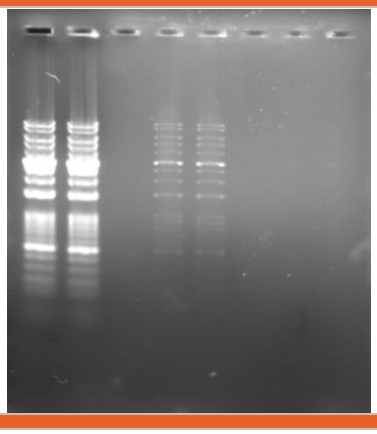
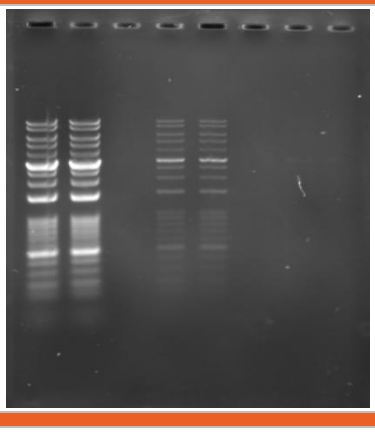
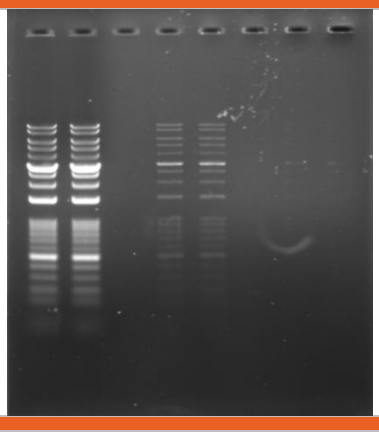
1% Agarose Gel

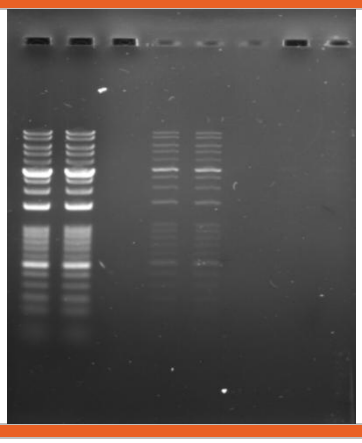
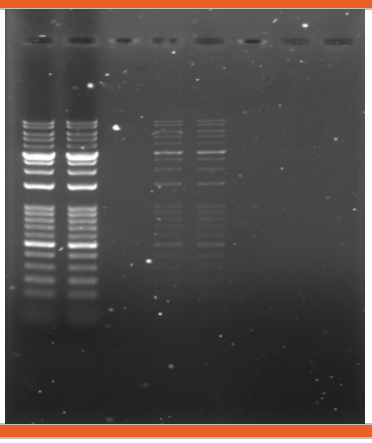
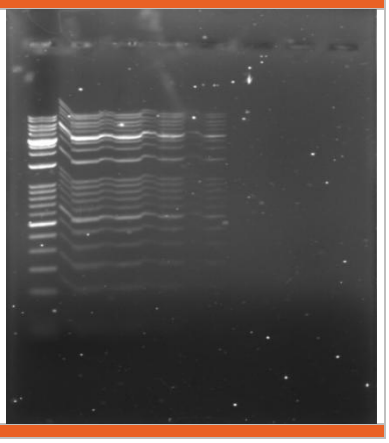
1. 1% agarose gel was made and added 5 µl/100 ml of G108 dye after cooling to ~60^{o}C
2. After homogenizing the G108 dye, it was poured and allowed gel to set
3. Remainder molten agarose was left to set and re-boiled until it is liquid again
4. After cooling down, another gel was poured
5. Step 3 and 4 was repeated until a total of 6 gels were made

Gel Electrophoresis

1. Three dilutions of 1kb DNA ladder (G106) were loaded onto the 1% agarose gel in duplicates
    - 5 µl of **undiluted** 1kb DNA ladder (Lane 1-2)
    - 5 µl of **1/10 diluted** 1kb DNA ladder (Lane 4-5)
    - 5 µl of **1/100 diluted** 1kb DNA ladder (Lane 7-8)
2. Gel was run at 100V for 25 minutes

Results:

Original gel	Re-boiled 1	Re-boiled 2
		

Re-boiled 3	Re-boiled 4	Re-boiled 5
		

Dye intensity was highest in original gel, but intensity did not observe a gradual decrease as the number of re-boiling increased. However, structural integrity of the agarose gel was noticeably weaker by the 5th re-boiling, which led to a rip of the wells (well 2-6) during loading, hence, the observed smear.

Conclusion:

Re-boiling of up to 5 times did not significantly impact the performance of the SafeView dye (G108). However, integrity of the agarose gel may weaken over time.