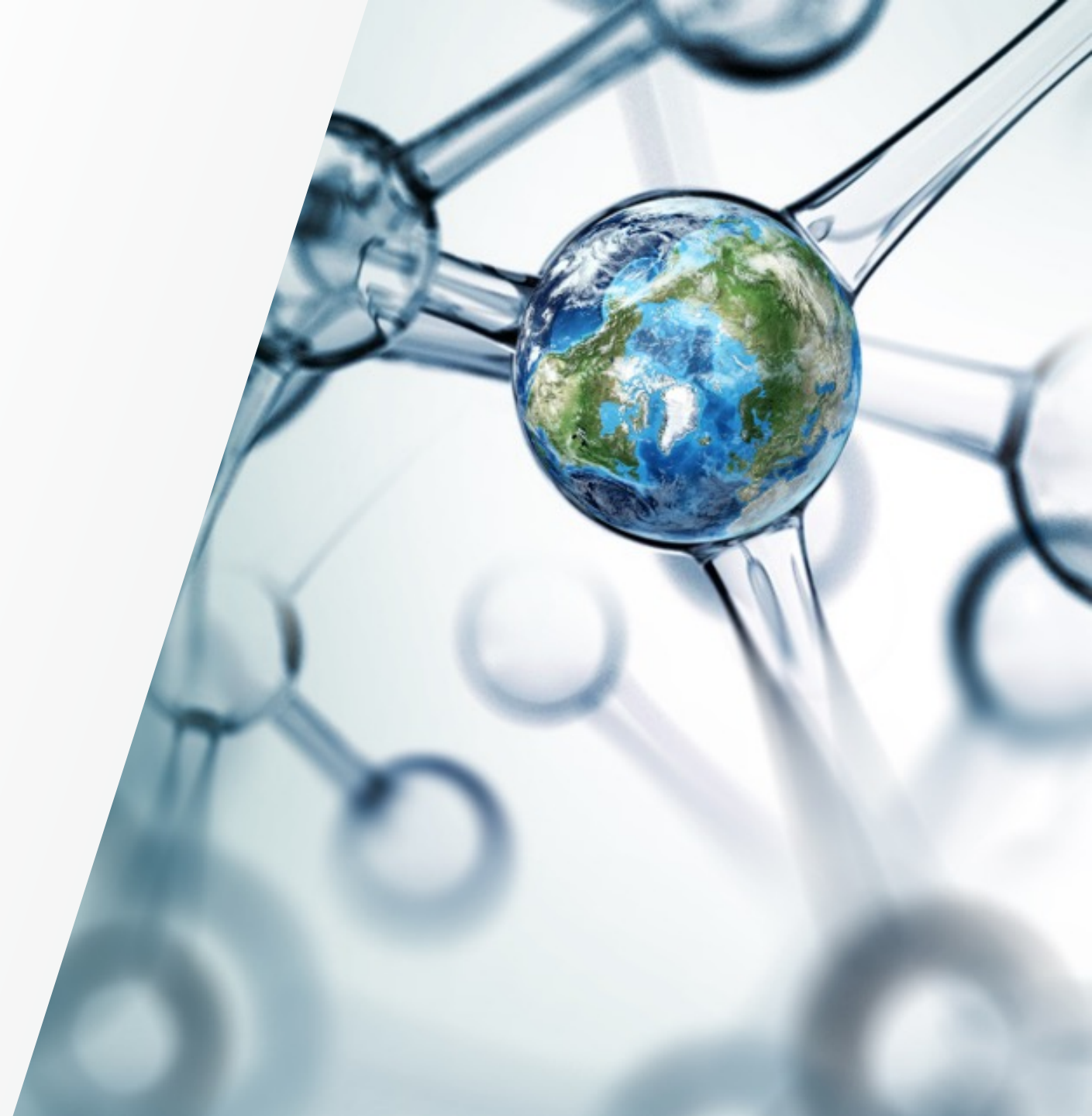
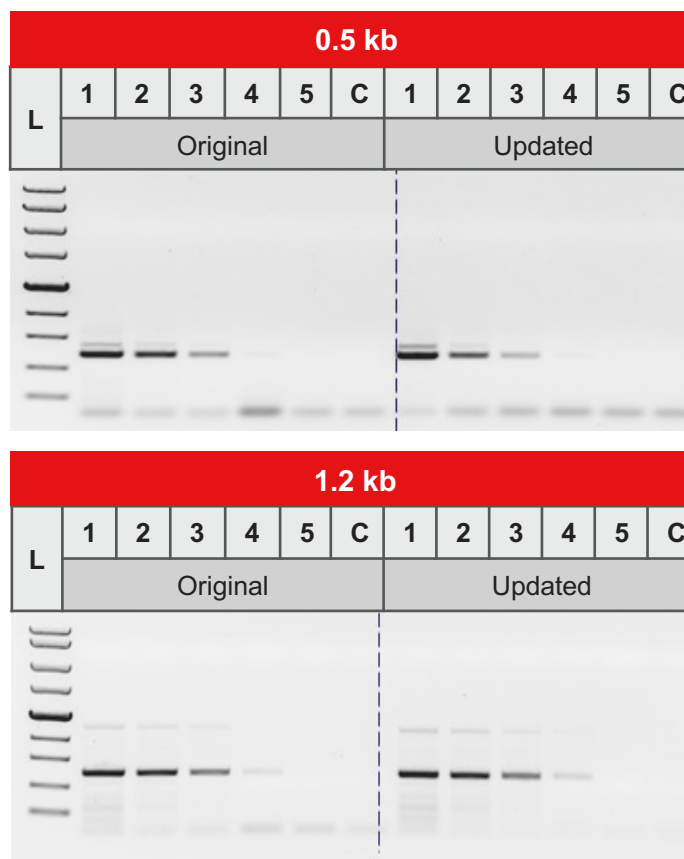
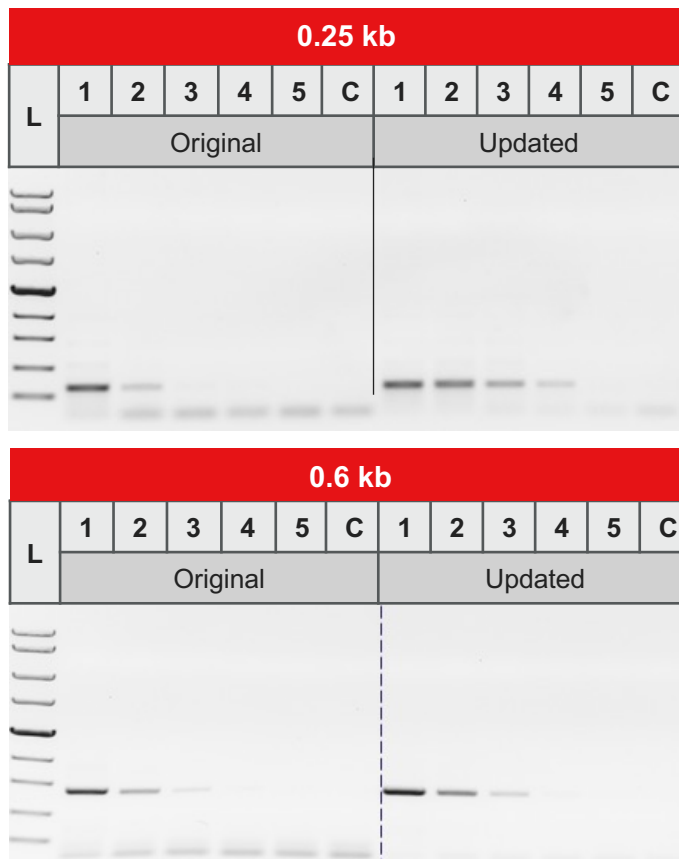


# Performance comparison of the updated and original formulations of *Taq* DNA Polymerase

 The world leader in serving science



# Sensitivity analysis of different-length targets from human DNA using *Taq* DNA Polymerase



**Sensitivity comparison of original and updated formulations of *Taq* DNA Polymerase.**  
Sensitivity analysis was performed with different amounts (10 pg to 100 ng) of human genomic DNA amplifying targets of varying lengths (0.25–1.2 kb) using the original and updated formulation of *Taq* DNA Polymerase.

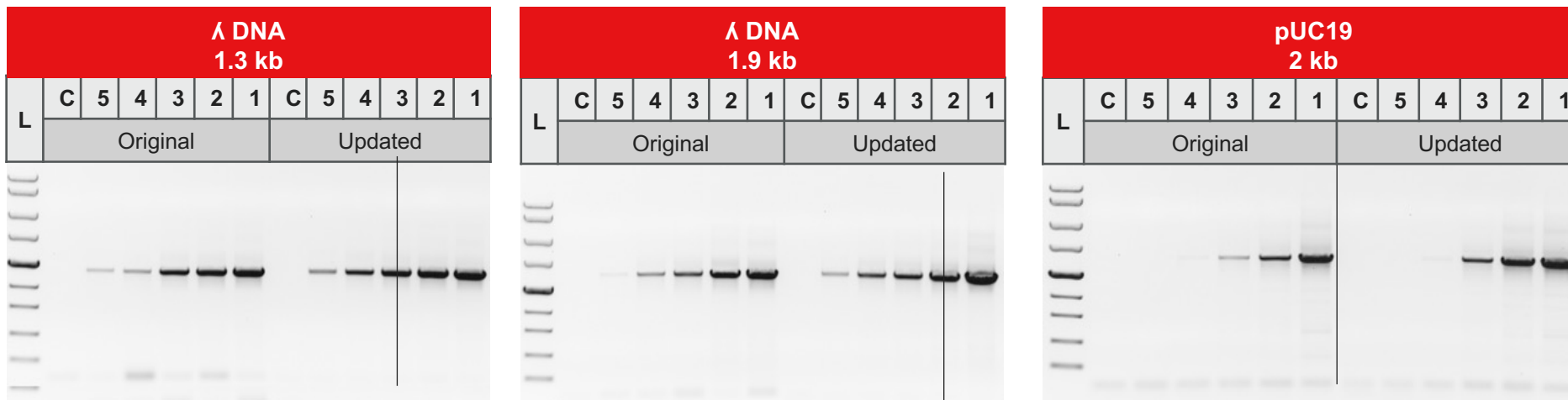
**Original formulation:**  
Thermo Scientific™ *Taq* DNA Polymerase and 10X *Taq* Buffer with NP-40 detergent

**Updated formulation:**  
*Taq* DNA Polymerase and 10X *Taq* Buffer formulated with an alternative detergent

No.	Quantity of human DNA matrix
1	100 ng
2	10 ng
3	1 ng
4	100 pg
5	10 pg
C	No template control

The updated formulation of *Taq* DNA Polymerase and 10X *Taq* Buffer retains detection sensitivity equivalent to that of the original formulation of *Taq* DNA Polymerase and 10X *Taq* Buffer.

# Sensitivity analysis of different length targets from $\lambda$ and pUC19 DNA using *Taq* DNA Polymerase



**Original formulation:**  
*Taq* DNA Polymerase and 10X *Taq* Buffer with NP-40 detergent

**Updated formulation:**  
*Taq* DNA Polymerase and 10X *Taq* Buffer formulated with an alternative detergent

**Sensitivity comparison of original and updated formulations of *Taq* DNA Polymerase.** Sensitivity analysis was performed with different amounts (0.001 pg to 10 pg) of  $\lambda$  or pUC19 DNA amplifying targets of varying lengths (1.3–2 kb) using the original and updated formulation of *Taq* DNA Polymerase.

No.	Quantity of $\lambda$ or pUC19 DNA matrix
C	No template control
1	10 pg
2	1 pg
3	0.1 pg
4	0.01 pg
5	0.001 pg

The updated formulation of *Taq* DNA Polymerase and 10X *Taq* Buffer retains detection sensitivity equivalent to that of the original formulation of *Taq* DNA Polymerase and 10X *Taq* Buffer.

# Thank you

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