

Single Cell WGA Kit

Single-cell whole genome amplification

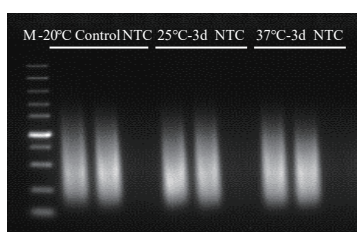
Advantage

- **Room temperature transportation:** The single cells selected can be placed under $\leq 37^{\circ}\text{C}$ for transportation and preservation after simple treatment.
- **Simple operation and high sensitivity:** Single cell or 15pg total DNA can be used as the starting template. Only takes 3 h to amplify.
- **Uniformity:** Suitable for copy number variation analysis of chromosomes exceeding 4Mb.
- **Accurate analysis:** Capable of high reproducibility and accuracy in single nucleotide variation analysis (SNV) and copy number variation analysis (CNV).

Product Performance

Agarose Gel Image & Concentration

Amplification was conducted using Cowin's Single Cell WGA Kit for samples stored at -20°C , cell lysates stored at 25°C for 3 days, and cell lysates stored at 37°C for 3 days.

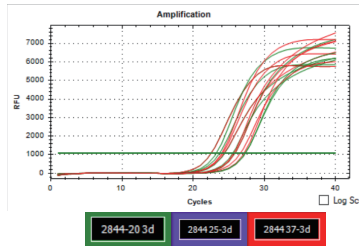


No.	Name	Concentration (60 μl) ng/ μl
1	-20 $^{\circ}\text{C}$ Control 1	68.8
2	-20 $^{\circ}\text{C}$ Control 2	66.6
3	-20 $^{\circ}\text{C}$ NTC	3.62
4	25 $^{\circ}\text{C}$ 3d 1	68
5	25 $^{\circ}\text{C}$ 3d 2	66.6
6	25 $^{\circ}\text{C}$ 3d NTC	3.52
7	37 $^{\circ}\text{C}$ 3d 1	61.8
8	37 $^{\circ}\text{C}$ 3d 2	57.8
9	37 $^{\circ}\text{C}$ 3d NTC	3.06

Conclusion: Storage at different temperatures does not affect the yield of single-cell whole genome amplification.

qPCR Result

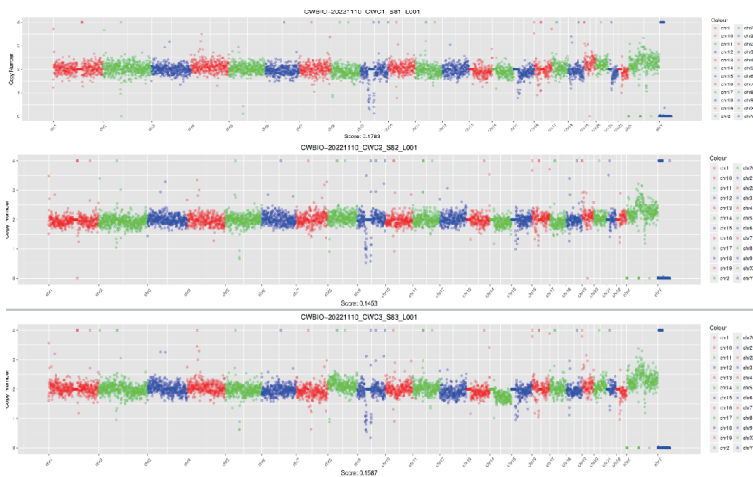
Amplification was conducted using Cowin's Single Cell WGA Kit for samples stored at -20°C , cell lysates stored at 25°C for 3 days, and cell lysates stored at 37°C for 3 days.



CT	-20°C control	25°C 3d	37°C 3d
1	23.66	24.15	24.14
2	24.38	24.26	24.31
3	22.47	24.03	22.48
4	25.84	25.34	25.81
5	23.21	23.3	24.01
6	25.52	26.78	25.63
7	27.29	25.2	27.11
8	27.25	27.81	26.58

Conclusion: Storage at different temperatures does not affect the Ct value of single-cell whole genome amplification.

NGS Result



NGS results- Storage at room temperature (compared at -20°C , 37°C , and 50°C).

Conclusion: Storage at different temperatures does not affect the subsequent amplification and detection of CNV in cell products, demonstrating high reproducibility and accuracy.

Product Information

Cat. No.	Name	Specification	Keyword
CW2844S	Single Cell WGA Kit	24rxns	Single-cell whole genome amplification
CW2844M		96rxns	