

Supplement of Atmos. Chem. Phys., 20, 3291–3315, 2020
<https://doi.org/10.5194/acp-20-3291-2020-supplement>
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Supplement of

Protein aggregates nucleate ice: the example of apoferritin

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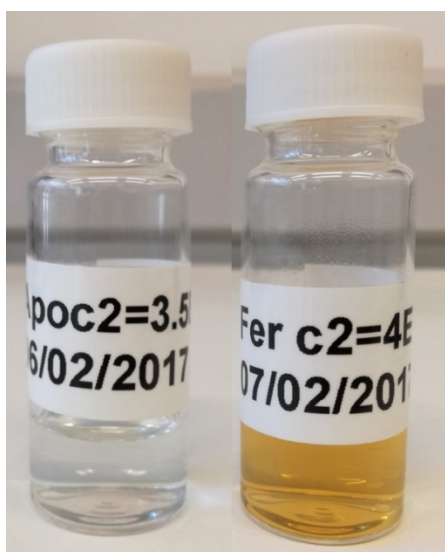


Figure S1. Color of ferritin (right vial) compared with colorless apoferritin (left vial).

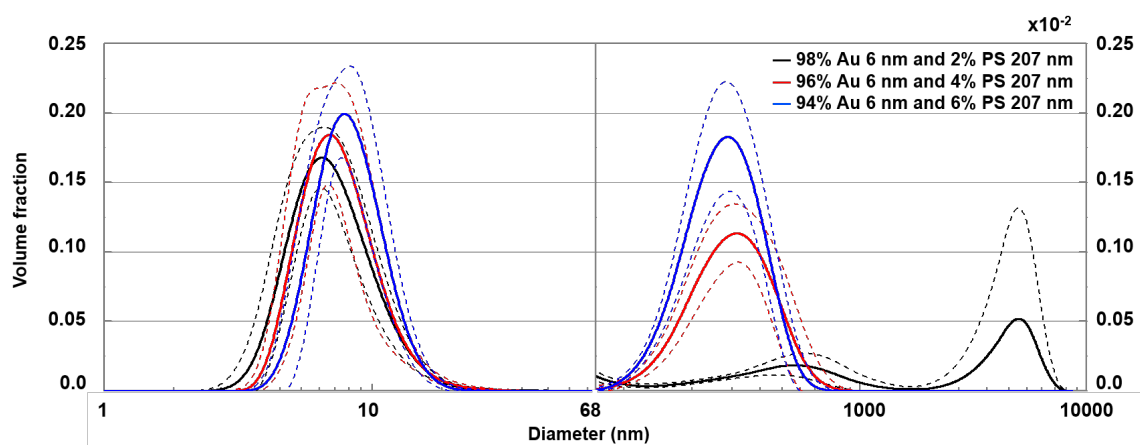


Figure S2. Volume-weighted distribution of polystyrene latex and gold nanoparticles mixtures measured by dynamic light scattering. (a) Main peak corresponds to the 6 nm gold signal. (b) Secondary peak corresponds to the polystyrene signal (207 nm). Mixing ratios gold/polystyrene: 98/2 (black), 96/4 (green), 94/6 (pink). Solid lines are averages of multiple measurements; dashed lines indicate one standard deviation.

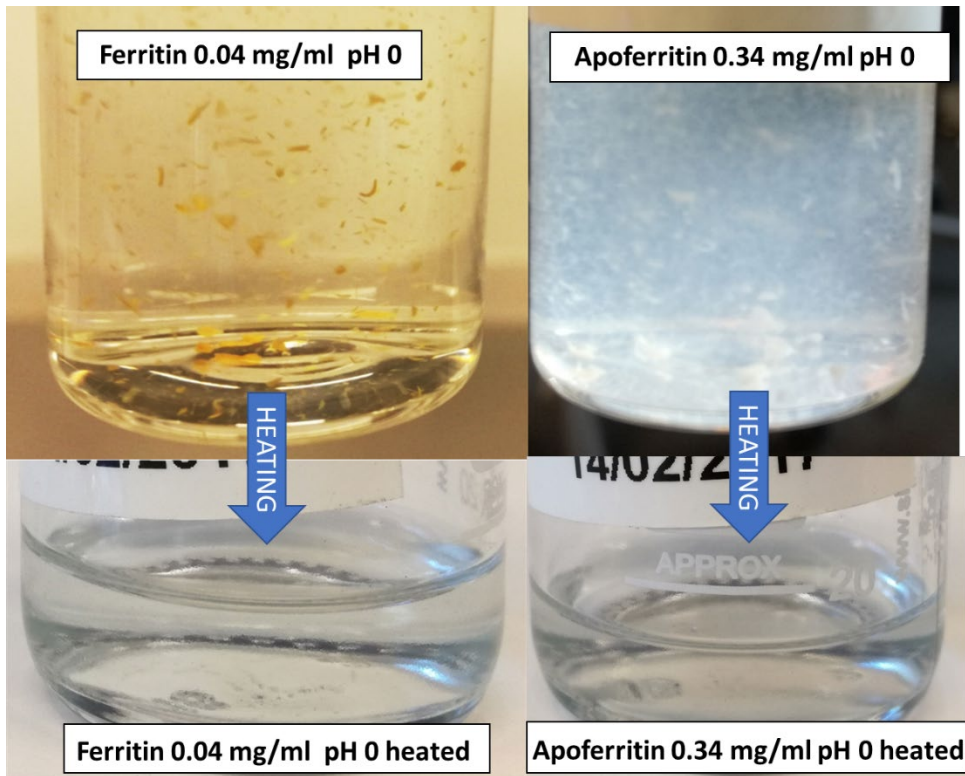


Figure S3. Effect of pH 0 and pH 0 combined with heating to 110°C on the appearance of ferritin and apoferritin solutions.

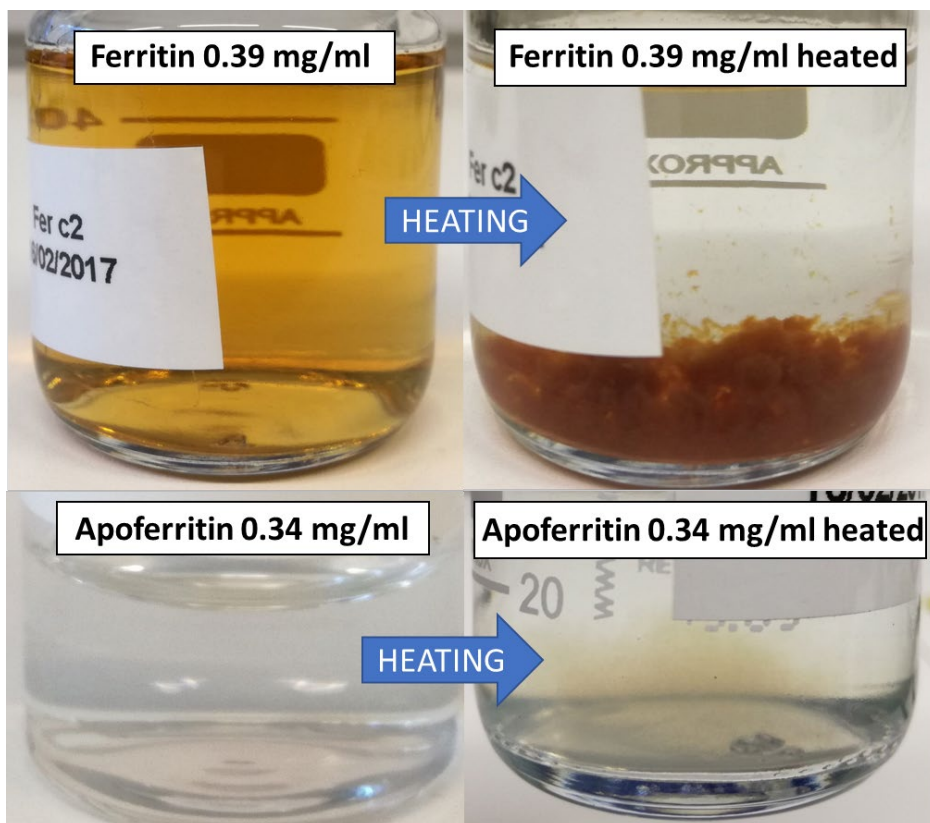
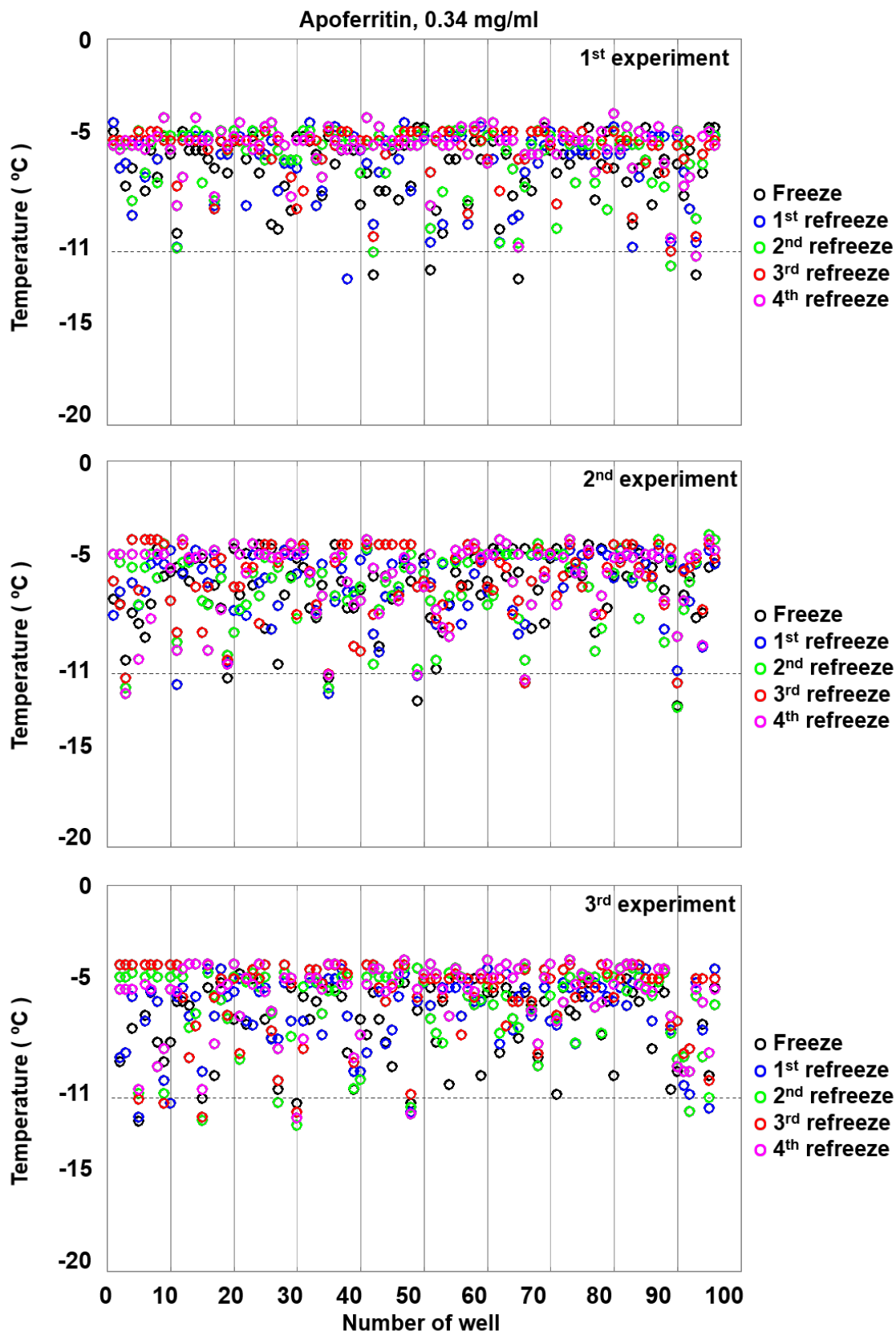
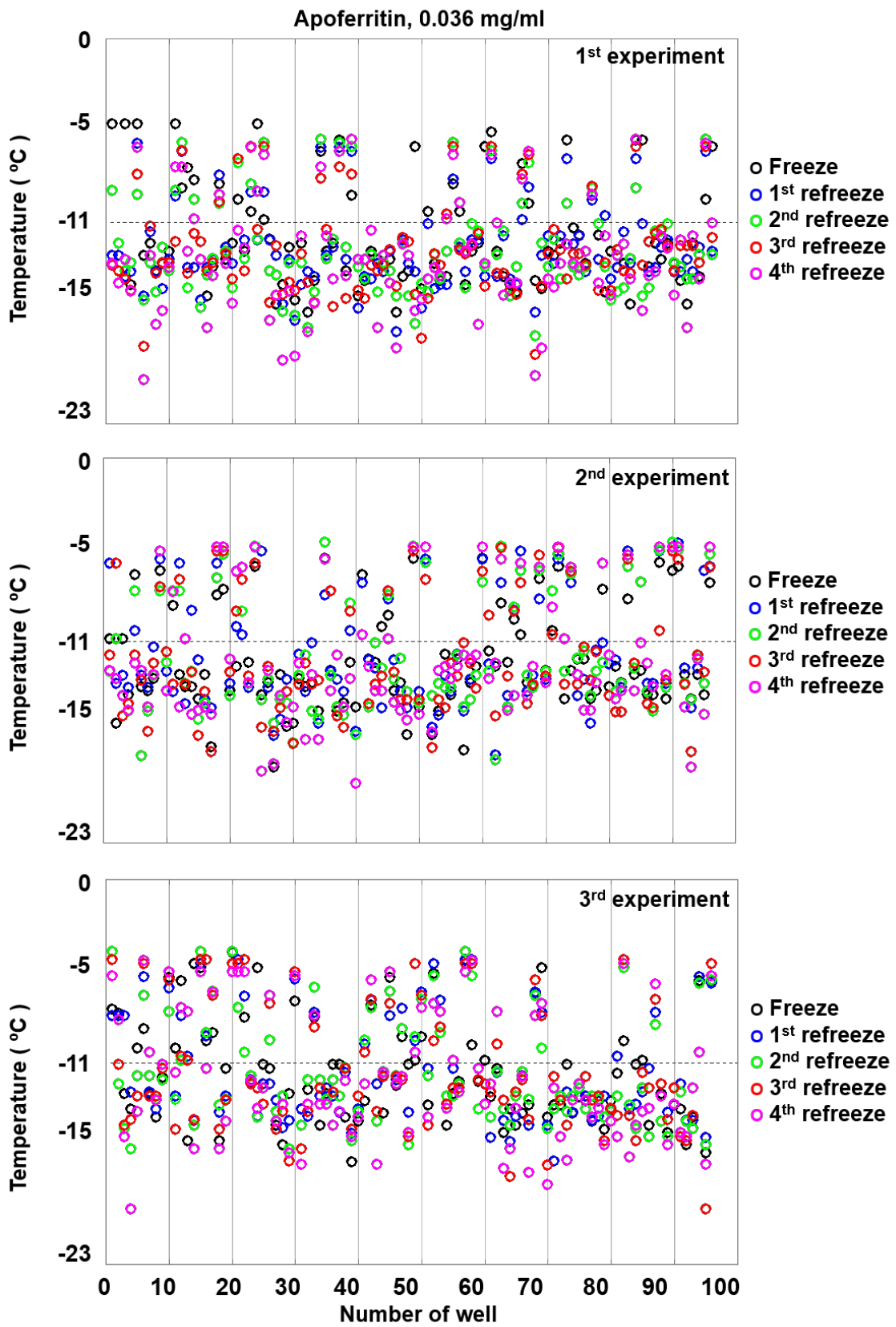


Figure S4. Effect of heating to 110°C on the appearance of ferritin and apoferritin solutions.





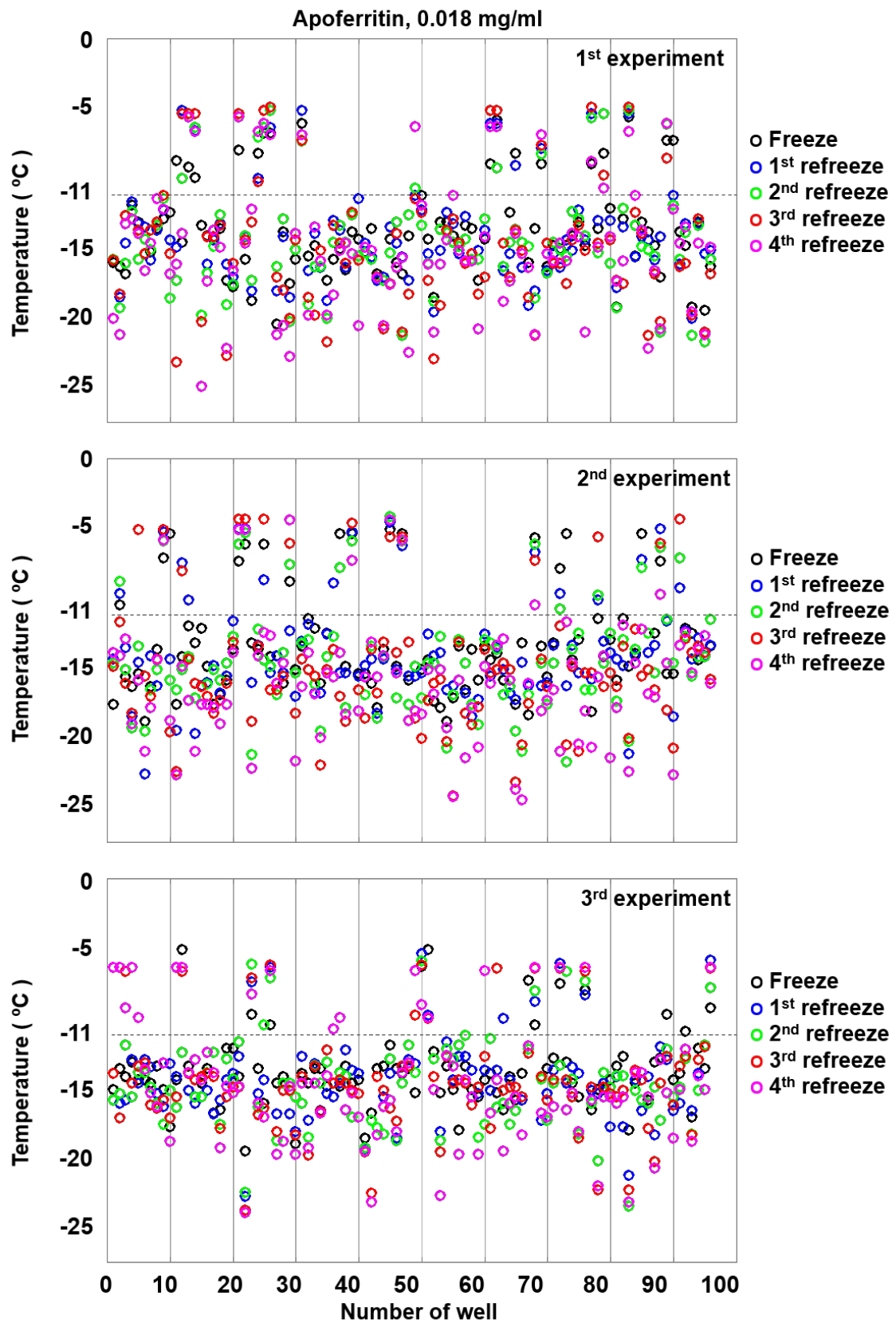


Figure S5. Well per well results of refreeze experiments performed with apoferritin (batch 2) with concentrations of 0.34 mg/ml, 0.036 mg/ml and 0.018 mg/ml.