



**Figure S2. Time-chase comparison between formamide buffer and EC buffer.** Time-chase comparison of FISH signal intensities using 15% EC buffer and 45% formamide buffer on FFPE breast carcinoma tissue sections. **A:** Forty-five percent formamide buffer with Cot-1 blocking. Denaturation at 82°C for 5 minutes, then hybridized at 45°C from t=0 minute to t=23 hours. **C:** Fifteen percent EC buffer without Cot-1 blocking. Denaturation at 67°C for 10 minutes, then hybridized at 45°C from t=0 minute to t=23 hours. **A and C:** Merge of red *HER2* DNA probe signals, green CEN-17 PNA signals. **B and D:** DAPI staining of sections in **A** and **C**, respectively. Images are taken with identical exposure times. Scale bar, 10  $\mu\text{m}$ .