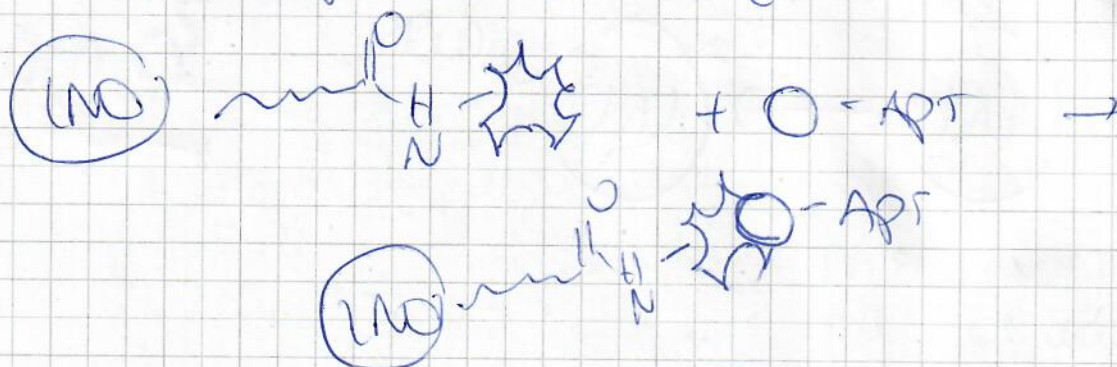


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- Bio-Apt coupling of LNO @ NOW (ASS55)

Protocol:

10 μL chip 100 μL (Cys or not) $\rightarrow$ + 90 μL PBS + MgCl₂
 5 min, 90 °C. cool down, rt.

0.5 mg NPs $\rightarrow$ resusp. in PBS $\rightarrow$ put 50 μL on
 top (0.5 nmol apt). Rin 2h, 2l, done.

Wanted:

- Tween 20 0.01% (1x)
- Hybrid buff (1x)
- PBS + MgCl₂ (1x)

$\rightarrow$ resusp. in
 0.5 ml
 (1 mg/ml)

OLS results

(A) PBS: $170.4 \pm 10.5 \text{ nm}$ (PDI: 0.22)

DNA: $173.8 \pm 8.8 \text{ nm}$ (PDI: 0.18)

pH 3: $-10.6 \pm 0.8 \text{ mV}$

pH 7: $-22.1 \pm 0.7 \text{ mV}$

(B) Cys: PBS: $108.7 \pm 4.8 \text{ nm}$ (0.22)

DNA: $189.2 \pm 13.9 \text{ nm}$ (0.22)

pH 7: $-20.5 \pm 0.7 \text{ mV}$

pH 3: $-17.6 \pm 0.3 \text{ mV}$

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