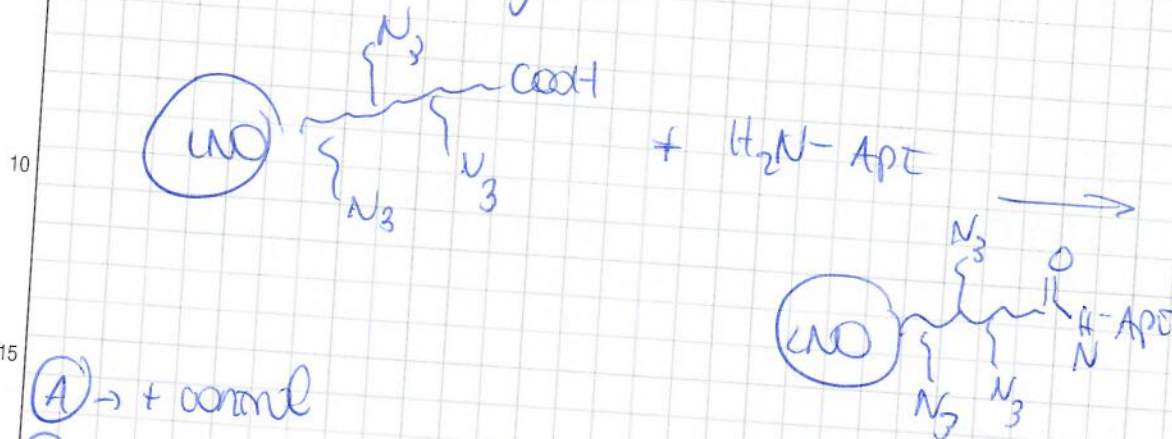


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- LNO@Apt from AS402 ($\text{NH}_2\text{-Apt}$) for EELS/EDX analysis



(A) $\rightarrow$ + control

(B) $\rightarrow$ - control

Protocol:

0.5 mg LNO@Apt (AS402, 5 mg/ml, 100 μL) were washed with 0.1 M MES buffer (pH 5.8). The pellet was resuspended in MES buffer. The NPs were incubated with excess of EDC (400 mM, 62.1 g/L, 50 μL in MES) and NHS (100 mM, 21.7 g/L, 50 μL) at rt (-control: only MES, no coupling agent) 50 μL of 10 μM anti-EtFR-Apt (0.5 nmol) was added to the solution and incubated at rt for 4h (1500 rpm).

At the end:

- Tween 20 0.01% (1x) $\rightarrow$ 10 min incub. each
- Hybridiz. buffer (1x)
- PBS + 5 mM MgCl_2 (1x)

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