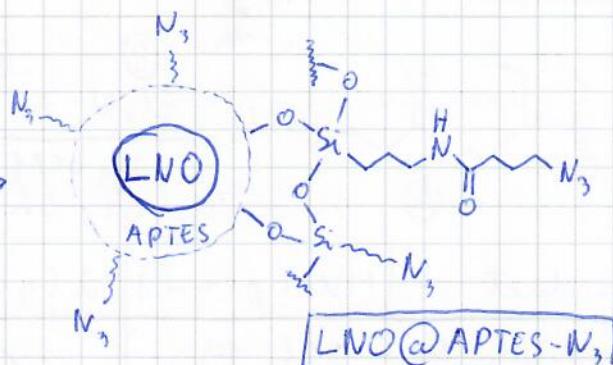
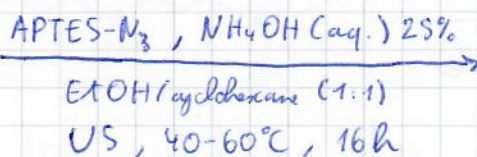


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LNO coating APTES-N₃

- coating of new LNO batch, L6-L9
- 4 coatings

↳ per coating: 2 mg LNO, 10.2 mg APTES-N₃, 0.15 mL NH₄OH (aq.) 25% (AG-101)

Protocol: Cyclohexane (1 mL) was added to a suspension of LNOs in EtOH (2 mg, 1 mL) and the suspension was ultrasonicated for 15 min. A solution of APTES-N₃ (10.2 mg, 30 μ mol) in EtOH/cyclohexane (100 μ L) was added to the suspension and ultrasonicated for 15 min under argon atm (* ammonia addition, US over-night). The suspension was centrifuged (10 min, 4700 rpm) and the supernatant was discarded. The nanoparticles were washed with EtOH in the same manner (5 $\times$ 1 mL) and resuspended in EtOH (1 mL). An aliquot of the LNO@APTES-N₃ suspension (20 μ L) was diluted with PBS 0.1x to 1 mL and ultrasonicated for 30 min. The diluted aliquot was analysed by DLS with a Malvern NanoZ.

* NH₄OH aq. (0.15 mL, 25%) was added and the suspension was ultrasonicated for 16 h under argon atm (T° ranging from 40 to 60 °C)

Results: bare LNOs: 232.6 ± 0.4 nm
 -47.1 ± 1.1 mV

average results
in PBS 0.1x

LNO@APTES-N₃: 333.5 ± 1.1 nm
 -42.8 ± 3.2 mV

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23.11.20

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