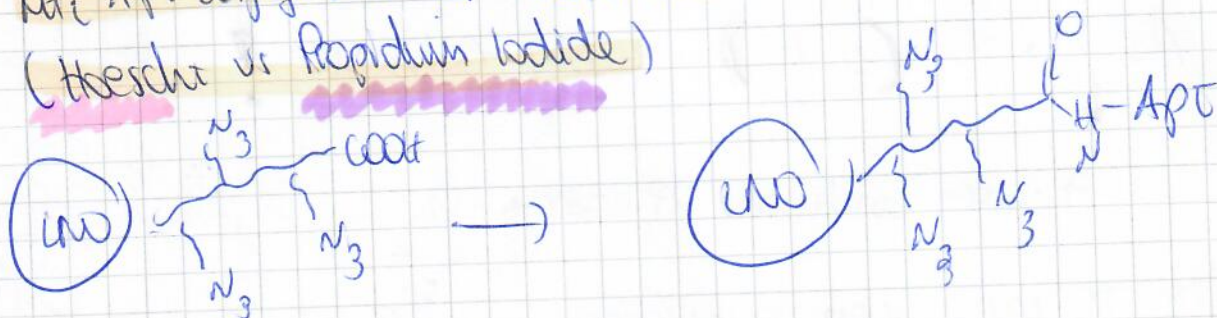


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- NH_2 -Apt conjugation for quantification comparison
(Thiersch vs Propidium iodide)



Protocol:

1 mg UNO@Tallys (AS430, 5 mg/mL, 200 μ L) were washed with 0.1 M MES (pH 5.8). The pellet was resuspended in buffer.

The NPs were incubated with excess sol. of EDC (62.1 g/L, 100 μ L, MES) and sulfo-NHS (21.7 g/L, 100 μ L, MES) at rt. (- control: only MES)

100 μ L of 10 μ M anti-ErbB aptamer (1 nmol) was added and incubated for 4h at rt (1500 rpm)

At the end: centrifuge and wash:

- Tween 20 0.01% (1x)
- Hybrid buffer (1x)
- PBS + 1 mM $MgCl_2$ (1x)

DL5 105 units:

(A) PBS: 120.2 ± 7.0 nm (POI: 0.107)

OMA: 152.2 ± 7.3 nm (POI: 0.17)

pH 7: -34.9 ± 1.12 mV

pH 3: -21.7 ± 1.4 mV

(B)

PBS: 109.2 ± 5.6 nm (POI: 0.107)

OMA: 181.5 ± 1.5 nm (POI: 0.17)

pH 7: -34.3 ± 1.1 mV

pH 3: -12.7 ± 0.4 mV

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