

# AB-003

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## 4 ML-Thick CdSe/CdSe<sub>1-x</sub>Te<sub>x</sub> Core/Alloyed Crown NPLs

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Core > A-001

Shell > CdSe<sub>0.5</sub>Te<sub>0.5</sub>

- In **50ml** three necked flask **430uL A-001**, **5mL ODE**, **30mg Cd(Ac)<sub>2</sub> · H<sub>2</sub>O**, and **45uL Oleic Acid** mixed and degassed at **80C** for **30mins**.
- Under *Nitrogen* the temperature set to **240C** when the temperature reached to **215C**, mixture of **3mL degassed ODE**, **45uL TOP-Se(1M)** and **45uL TOP-Te(1M)** injected with a rate of **2mL/h** until **1mL** of mixture injected.
- After the injection **0.5mL** of *Oleic Acid* added to the mixture and the mixture cooled.
- After cooling **5mL** of *n-hexane* added and centrifuged for **10 mins**.
- The precipitate dissolved in *toluene* for storage.