**30\_11\_16 & 06\_12\_16 TEM Imaging Procedure**

1. A1 – ZigZag, Resin Clean, 2nM (annealed 1x TAE 24mM Mg)

1M MgCl2 Unstained with U.F. solution

1. B1 – ZigZag, Resin Clean, 2nM (annealed 1x TAE 24mM Mg)

1M MgCl2 Stained with 1% U.F. solution

1. C1 - Tube With Cork/TWC, Resin Clean, 2nM (annealed 1x TAE 24mM Mg)

1M MgCl2 Stained with 1% U.F. solution

1. D1 – Dimer Tube, Resin Clean, 2nM (annealed 1x TAE 24mM Mg)

1M MgCl2 Stained with 1% U.F. solution

1. E1 – Puller 4pN, PEG Clean (annealed 1x TAE 24mM Mg)

Stained 2% U.F. 25mM NaOH solution (NO Mg)

1. A2 - Puller 4pN, PEG Clean (annealed TE 20mM Mg)

1M MgCl2 Stained 2% U.F. 25mM NaOH solution

1. B2 - Puller 4pN, PEG Clean (annealed TE 20mM Mg)

1M MgCl2 Stained 1% U.F solution

1. A3 – Grid only

1M MgCl2 Stained 2% U.F. 25mM NaOH solution

1. E2 – ZigZag, Resin Clean, 2nM (annealed 1x TAE 24mM Mg)

1% U.F. solution (NO Mg)

1. C2 – ZigZag, Resin Clean, 2nM (annealed 1x TAE 24mM Mg)

1M MgCl2 Stained 2% U.F. 25mM NaOH solution

1. D2 - Dimer Tube, Resin Clean, 2nM (annealed 1x TAE 24mM Mg)

1M MgCl2 Stained 2% U.F. 25mM NaOH solution

1. B3 – ZigZag, PEG Clean, 4nM (annealed 1x TAE 24mM Mg)

1% U.F. solution (NO Mg)

1. C3 – ZigZag, PEG Clean, 4nM (annealed 1x TAE 24mM Mg)

2% U.F. 25mM NaOH solution

1. D3 – ZigZag, PEG Clean, 4nM (annealed 1x TAE 24mM Mg)

1% U.F. 25mM NaOH solution

1. E3 - Reg Origami, Resin Clean, 4nM (1x TAE 12.5 mM Mg)

1% U.F. solution

1. A4- Reg Origami, Resin Clean, 4nM (1x TAE 12.5 mM Mg)

2% U.F. 25mM NaOH solution

1. E4 - TWC Mono, PEG Clean, 4nM (1x TAE 24mM Mg)

1M MgCl2 2% U.F. + 25mM NaOH

1. B4 - TWC Mono, PEG Clean, 4nM (1x TAE 24mM Mg)

2% U.F. + 25mM NaOH

1. A4 - TWC Dimer, PEG Clean, 4nM (1x TAE 24mM Mg)

1M MgCl2 2% U.F. + 25mM NaOH

1. C4 - TWC Dimer, PEG Clean, 4nM (1x TAE 24mM Mg)

2% U.F. + 25mM NaOH

1. D4 - TWC Dimer, PEG Clean, 4nM (1x TAE 24mM Mg)

1% U.F. solution

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|  | **ZigZag**  **(Resin)** | **ZigZag + Mg**  **(Resin)** | **ZigZag**  **(PEG)** | **TWC Mono**  **(Resin)** | **TWC**  **Mono + Mg**  **(Resin)** | **TWC Mono**  **(PEG)** | **TWC**  **Mono + Mg**  **(PEG)** | **TWC Dimer**  **(Resin)** | **TWC Dimer +Mg**  **(Resin)** | **TWC Dimer**  **(PEG)** | **TWC Dimer +Mg**  **(PEG)** | **Reg Origami**  **(Reisn)** |
| **1% U.F.** | 9 | 2 | 12 |  | 3 |  |  |  | 4 | 21 |  | 15 |
| **1% U.F. 25mM NaOH** |  |  | 14 |  |  |  |  |  |  |  |  |  |
| **2% U.F. 25mM NaOH** |  | 10 | 13 |  |  | 18 | 17 |  | 11 | 20 | 19 | 16 |

|  |  |  |
| --- | --- | --- |
|  | **Puller**  **(PEG)** | **Puller**  **+ Mg**  **(PEG)** |
| **1% U.F.** |  | 7 |
| **1% U.F. 25mM NaOH** |  |  |
| **2% U.F. 25mM NaOH** | 5 | 6 |