

- 1) Kaleidoscope marker
- 2) HMGB1b – 12 kD
- 3) HMGB1b/R26A – 12kD
- 4) Histone H1 – 21 kD
- 5) Kaleidoscope marker

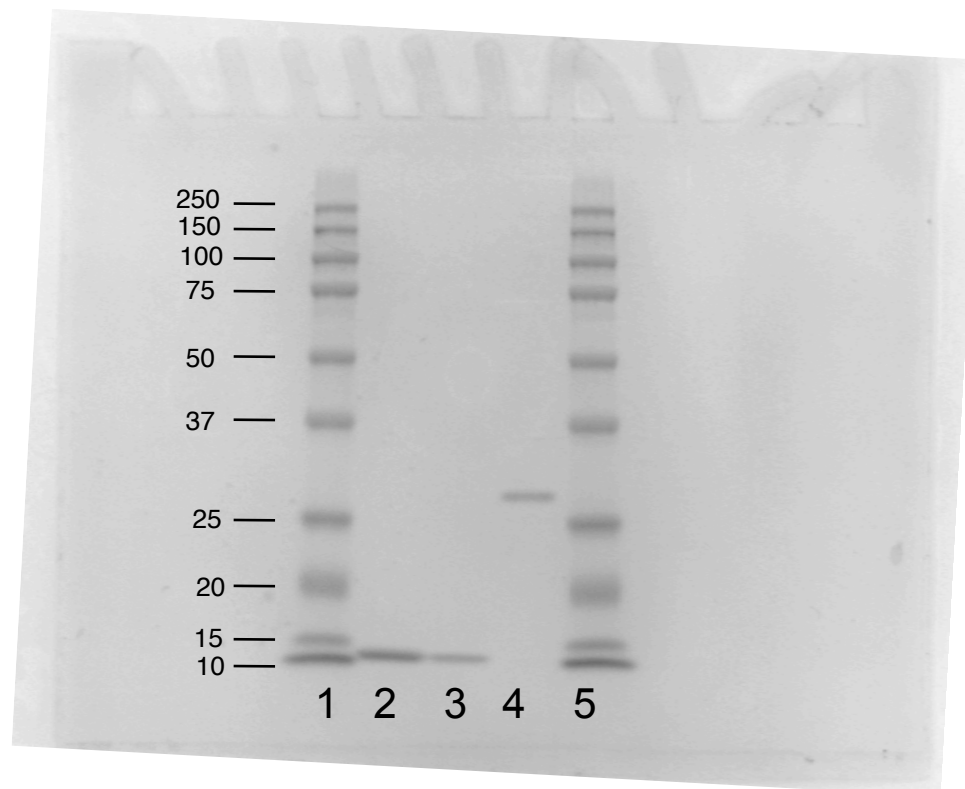


Figure 1: 12% SDS gel of HMGB1b, HMGB1b/R26A and histone H1. 1X TGX buffer run at ~125V for 1 hour. Lanes 1 and 5 contain BioRad Kaleidoscope marker. Lanes 2, 3, and 4 contain approximately 10 μ M of each HMGB1b, HMGB1b/R26A and histone H1.

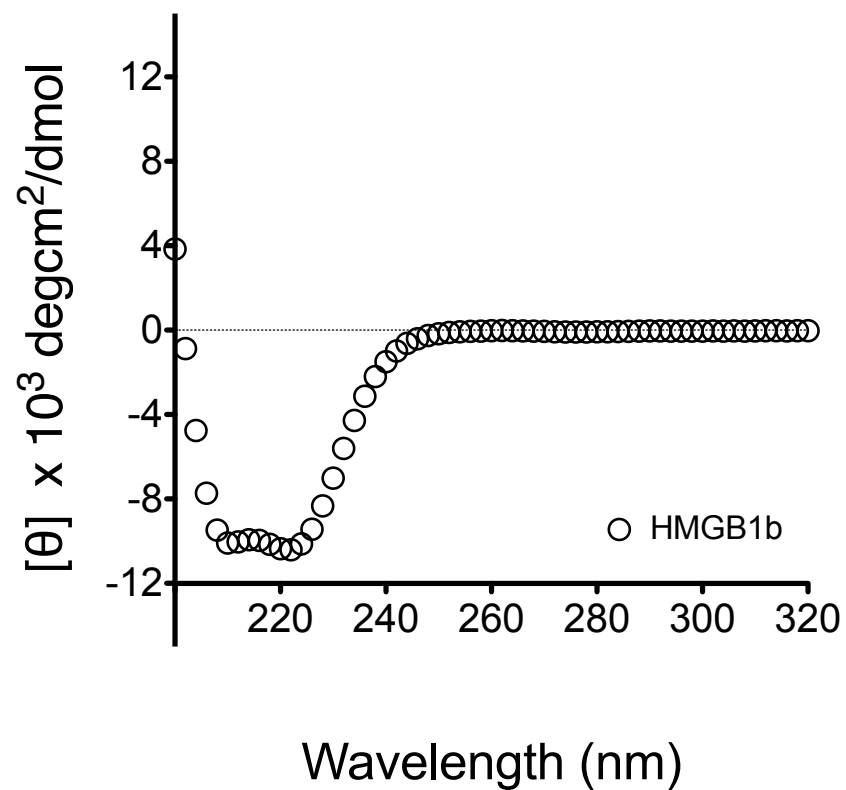


Figure 2: CD scan of 10 μM HMGB1b in the absence of four-way junctions. CD analysis buffer: 20 mM HEPES, 30 mM NH_4Cl , 200 mM KCl, 1 mM MgCl_2 , 2 mM DTT and 10% glycerol. Triplicate analysis.

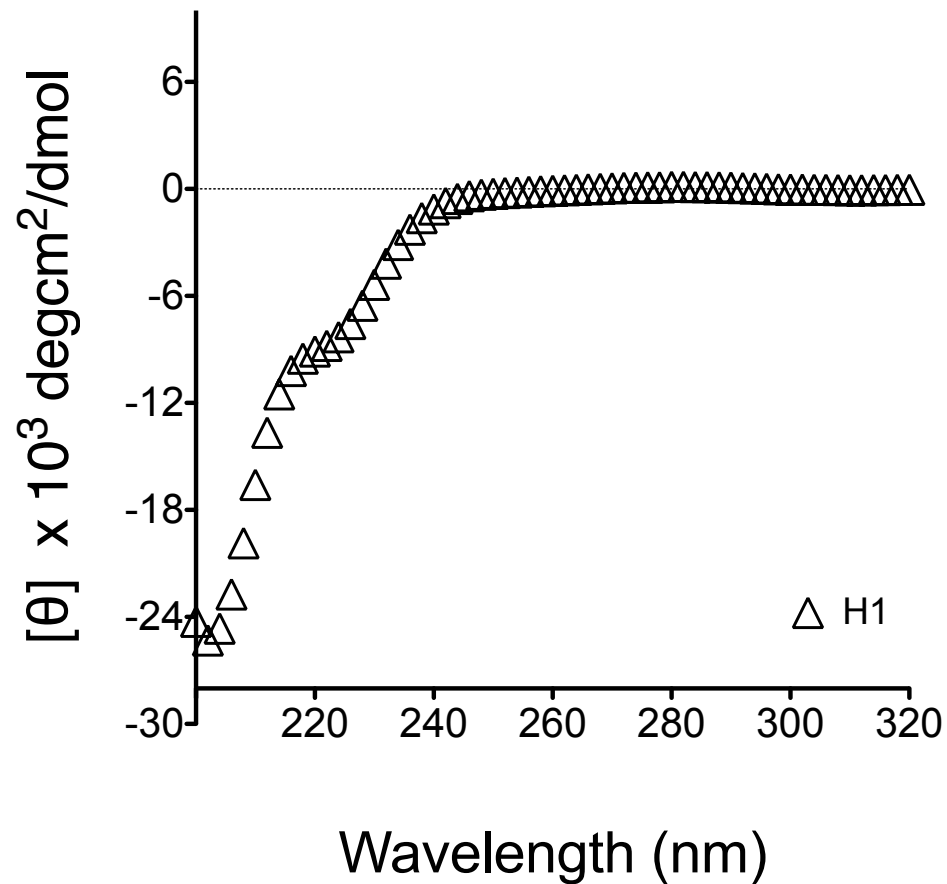


Figure 3: CD scan of 10 μM Histone H1 in the absence of four-way junctions. CD analysis buffer: 20 mM HEPES, 30 mM NH_4Cl , 200 mM KCl, 1 mM MgCl_2 , 2 mM DTT and 10% glycerol. Triplicate analysis.

Comment 1 PNA-1 junction
Comment 2

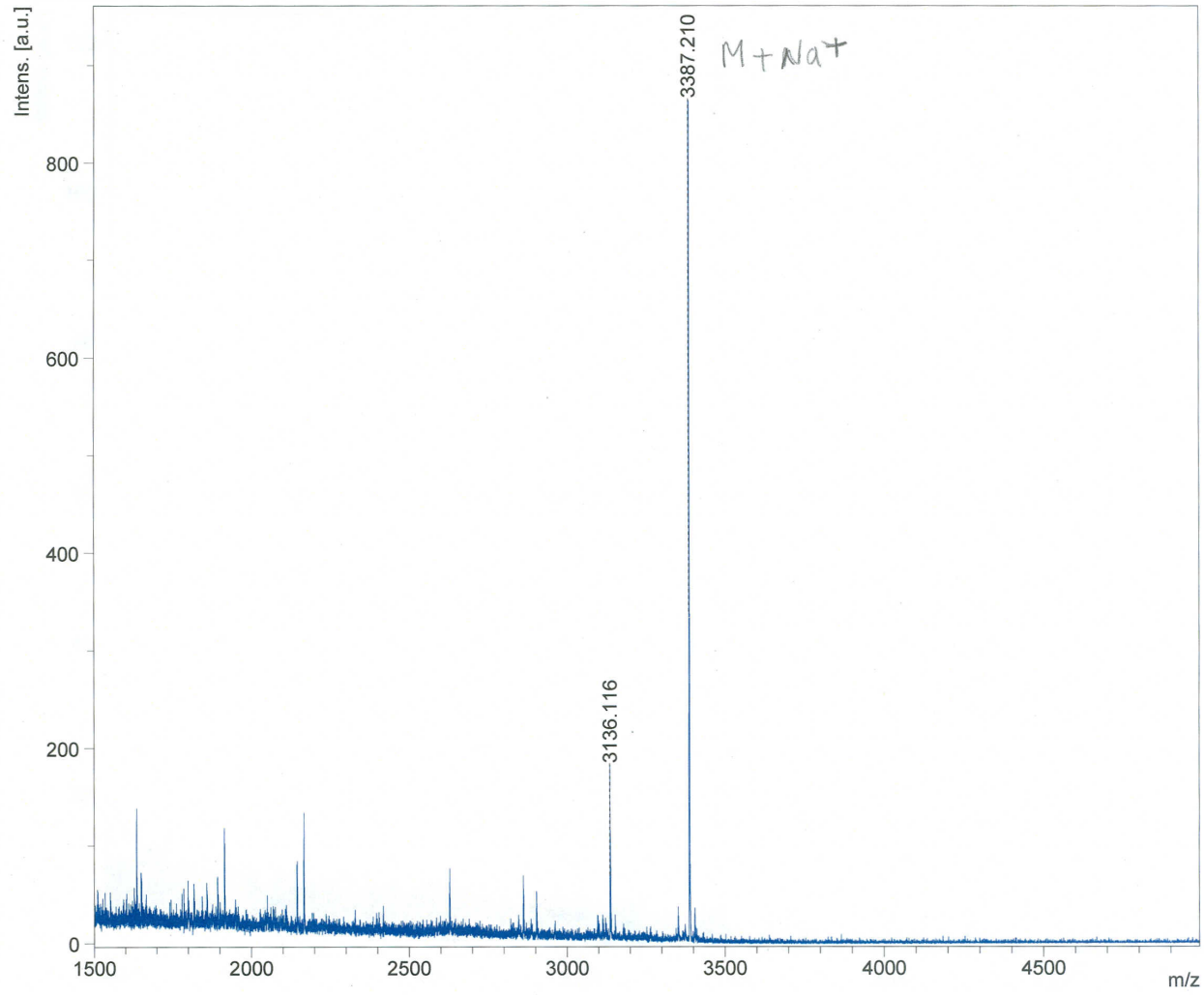


Figure 4: MALDI-MS of PNA1 indicating sample purity.
PNA1: H-CAATCCTGAGCA-K-NH₂ (MW = 3364.4); found m/z = 3387.21 (M+Na⁺)

Comment 1 PNA-2 junction

Comment 2

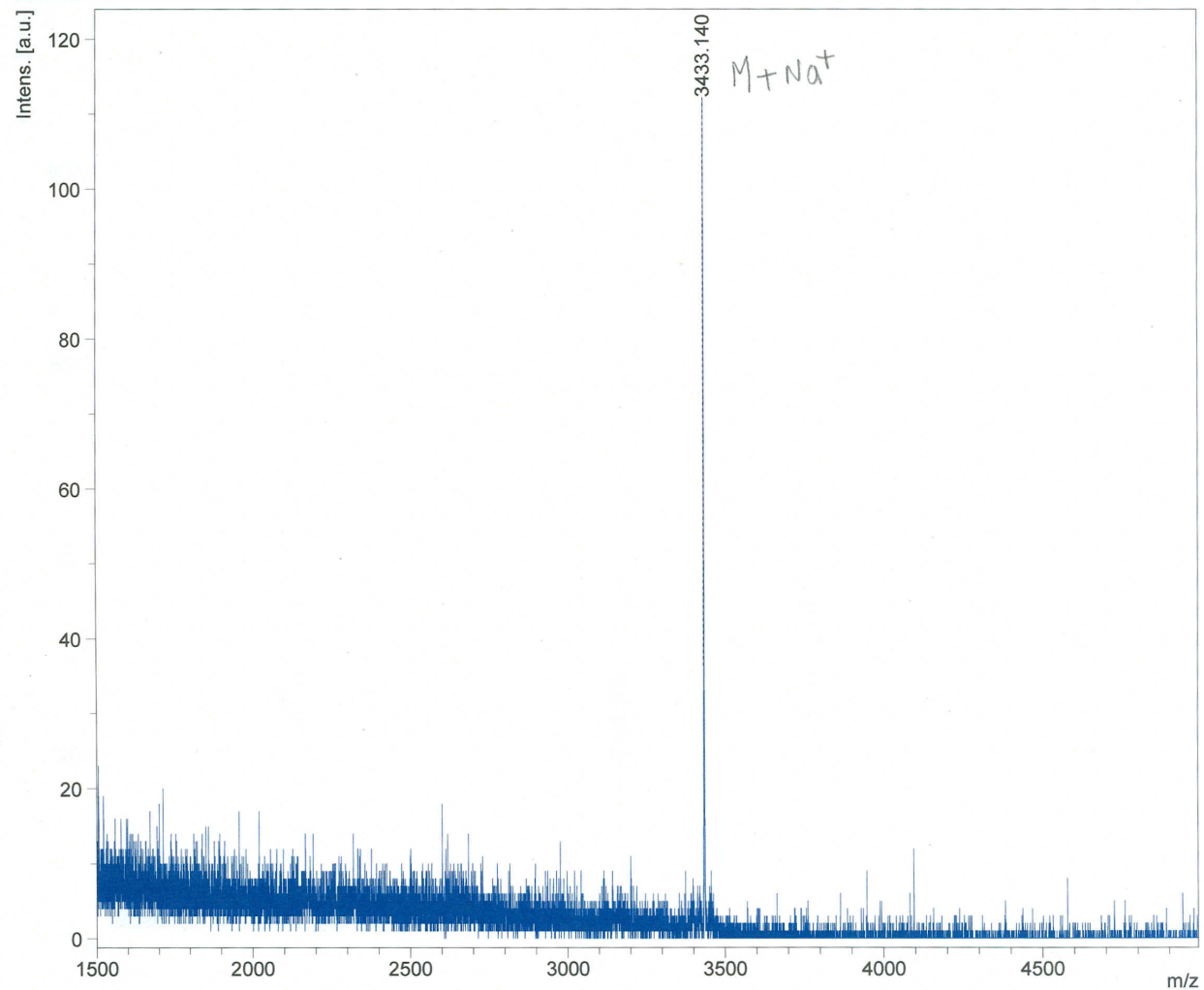


Figure 5: MALDI-MS of PNAs indicating sample purity.

PNA3: H-ATTCGGACTATG-K-NH₂ (MW = 3410.4); found m/z = 3433.14 (M+Na⁺)

Junctions 50 nM

- 1) 101 (ss control)
- 2) J1
- 3) 4WJ-PNA₁
- 4) 4WJ-PNA₃
- 5) J1



Figure 6: Native PAGE gel indicating sample purity of four-way junctions (50 nM). EMSAs were run using a buffer composed of 0.5 X TBE•MgCl₂ buffer (45 mM Trisma, 45 mM boric acid, 1.0 mM EDTA and 1 mM MgCl₂), pH 8.0, at 4°C for 2 – 3 hours.