

## **Gel loading buffer and DNA markers for agarose gel electrophoresis**

### **Recipe for 5X Orange G Gel loading buffer**

- 7.5 ml glycerol
- 100 mg Orange G dye
- dH<sub>2</sub>O to 50 ml

### **Recipe for 1.0 Kb DNA ladder (or other DNA Marker) loading solution**

- 50  $\mu$ l DNA Marker Stock Solution (usually 1  $\mu$ g/ $\mu$ l)  
- Final DNA concentration is 0.1  $\mu$ g /  $\mu$ l
- 100  $\mu$ l 5X Orange G Gel loading buffer
- 10  $\mu$ l 10 mM Tris-HCl, pH 8.0
- 340  $\mu$ l dH<sub>2</sub>O

### **NOTES**

1. Use Loading buffer at 1X concentration (ie add 1  $\mu$ l for every 4  $\mu$ l of sample)
2. Load 10  $\mu$ l of DNA ladder mix per lane.