

## Glucose Assay

### Reagents:

- 600 U/mL glucose oxidase (GOx)
- 500 U/mL horseradish peroxidase (HRP)
- Diaminobenzidine (DAB)
- Standard: D-(+)-Glucose

### Protocol:

1. Melt wax (printed side down) on 150°C hotplate for 60 seconds (*use tweezers to take paper off hotplate!*)
2. Use packing tape to cover backside (wax-printed side) of device
3. Add 1.0  $\mu$ L GOx to paper well (**let dry before adding HRP**)
4. Add 1.0  $\mu$ L HRP to paper well (**let dry before adding DAB**)
5. Add 1.0  $\mu$ L DAB to paper well
6. Add 10  $\mu$ L standard or control serum to well and let dry
7. For quantification, scan wells after the paper is completely dry