

Platform Set-up: Checklist

- ✓ immuDrop with USB cable and 24 VDC power supply, immuDrop software CD
- ✓ Laptop (Windows XP or Vista) with immuDrop Soft installed
- ✓ Pipettes (single and 8-channel, 10 & 100 µl) and pipette tips in rack; sample preparation microtiterplate
- ✓ Various consumables (e.g. 96-well plates, deep-well plates for buffers, etc.)
- ✓ immuDrop Chip kit with:
 - Wash and dilution buffer (0.1% TWEEN & MAE and BSA: pH 9.8)
 - Substrate (freeze-dried) & substrate buffer
 - Reagents (e.g. as provided in immuDrop Ready kits, incl. coated microbeads, phosphatase label, ...)



immuDrop Soft:

✓ SETTINGS:

- File Path (define): C:/.../Results (folders)
- Test connection: Check that immuDrop is well connected

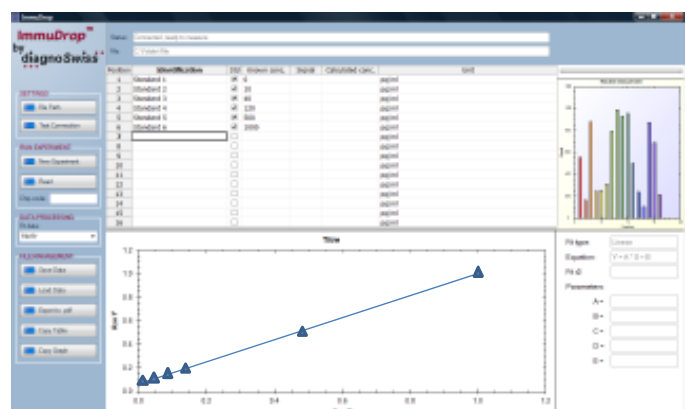
✓ RUN EXPERIMENT

- NEW EXPERIMENT: *Soft* refreshes the window and prepares immuDrop for next experiment
- *Soft* reads Barcode Chip (& validates)
- READ: *Soft* performs the enzyme readout

✓ DATA TREATMENT

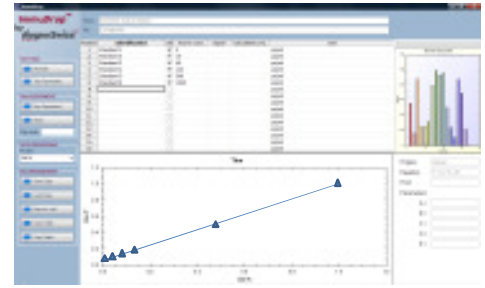
- **Enter** theoretic calibrator concentrations
- **Tick** select calibration curve points
- **Apply calibration curve**
(e.g. 2nd order Polynomial)

=> Curve parameters and calculated values of sample appear



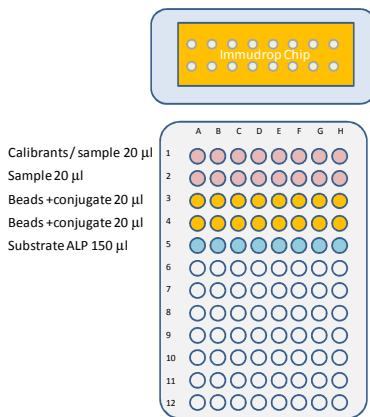
Assay Protocol:

1. Open immuDrop Soft
2. Insert immuDrop Chip
3. Scan immuDrop Chip barcode
4. Prepare samples & calibrators in the preparation plate



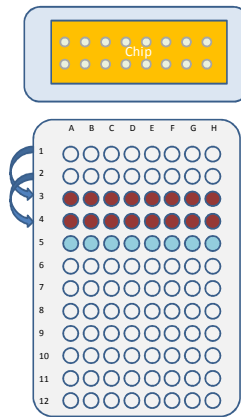
Step #1

Distribute all reagents in the plate



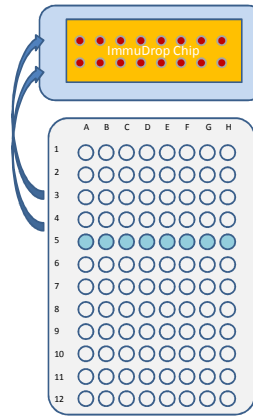
Step #2

Transfer sample/calibrants into beads line shake and wait 10 min



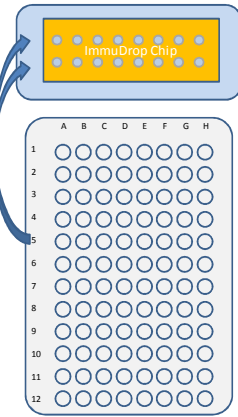
Step #3

transfer 30 µl the complex to the ImmuDrop chip



Step #4

Wash with 2x with 30 µl substrate and detect



16 assays in 15 minutes

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