Interaction Between NaCl and Insecticide

* Continuous dependent variable of total growth (AUC).
* Categorical independent variable (treatment). Treatments are levels in a factor.
* Two insecticides, two concentrations for each (5µM and 5mM), with and without salt. Also, no salt (control) and salt.
* Salt is 0.5M NaCl.
* Ten levels in factor
  1. salt
  2. no salt
  3. thiacloprid 5µM (low)
  4. thiacloprid 5mM (high)
  5. acetamiprid 5µM (low)
  6. acetamiprid 5mM (high)
  7. thiacloprid 5µM + salt (low)
  8. thiacloprid 5mM + salt (high)
  9. acetamiprid 5µM + salt (low)
  10. acetamiprid 5mM + salt (high)
* With 9 replicates each the whole expt can fit all on one plate.
* Do three blanks with media and three blanks with NaCl media.

Make 2 x 1ml 6.25mM stock solution for Thiacloprid

* 12.5µl master stock + 987.5µl media (x2)

Make 2 x 1ml 6.25mM NaCl stock solution for Thiacloprid

* 12.5µl master stock + 987.5µl NaCl media (x2)

Make 2 x 1ml 6.25mM stock solution for Acetamiprid

* 12.5µl master stock + 987.5µl media (x2)

Make 2 x 1ml 6.25mM NaCl stock solution for Acetamiprid

* 12.5µl master stock + 987.5µl NaCl media (x2)

For 5mM final well concentration

* 160µl 6.25mM stock + 40µl yeast culture

For 5µM final well concentration

* Make 0.625mM stock
  + 0.1ml 6.25mM stock + 0.9ml media
* 1.6µl 0.625mM stock + 156.4µl media + 2µl DMSO + 40µl yeast culture

Final NaCl conc 0.4M

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thia Low |  |  |  |  |  |  |  |  | Salt control |  |  |
| Thia High + salt |  |  |  |  |  |  |  |  |  |  |  |
| Acet High + salt |  |  |  |  |  |  |  |  |  |  |  |
| Thia Low + salt |  |  |  |  |  |  |  |  | control |  |  |
| Acet Low + salt |  |  |  |  |  |  |  |  |  |  |  |
| Acet Low |  |  |  |  |  |  |  |  |  |  |  |
| Acet High |  |  |  |  |  |  |  |  | Salt blank |  |  |
| Thia High |  |  |  |  |  |  |  |  | blank |  |  |