

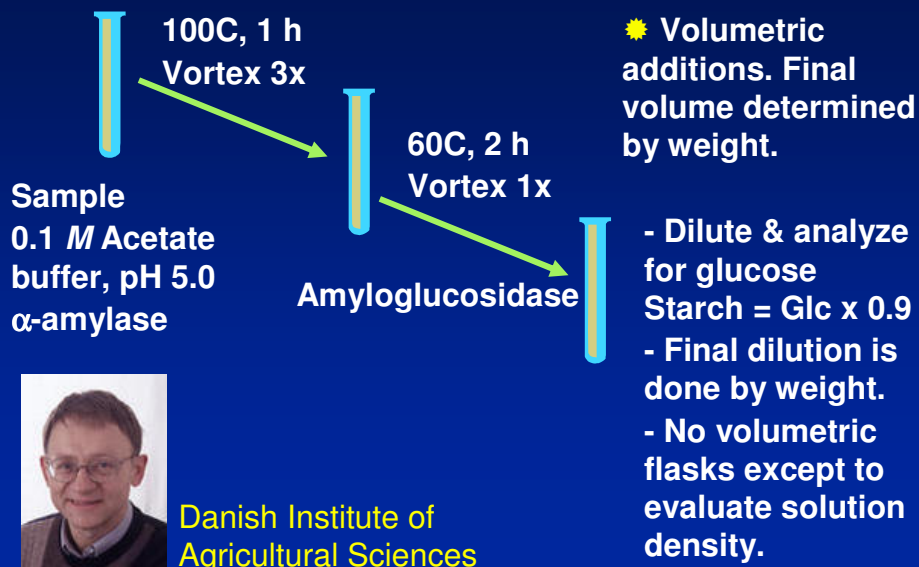
Starch Assay



- ☀ Carry a reagent blank, control starch sample and control glucose sample through the assay.
- ☀ Analyze for free glucose in samples to which no enzymes have been added.
- ☀ Analyze sucrose with the assay to verify that no glucose is released by enzymes or run conditions.
- ☀ Avoid neutral/alkaline conditions with partially hydrolyzed samples?
- ☀ Use weight to estimate volume?



Starch: Bach Knudsen, 1997

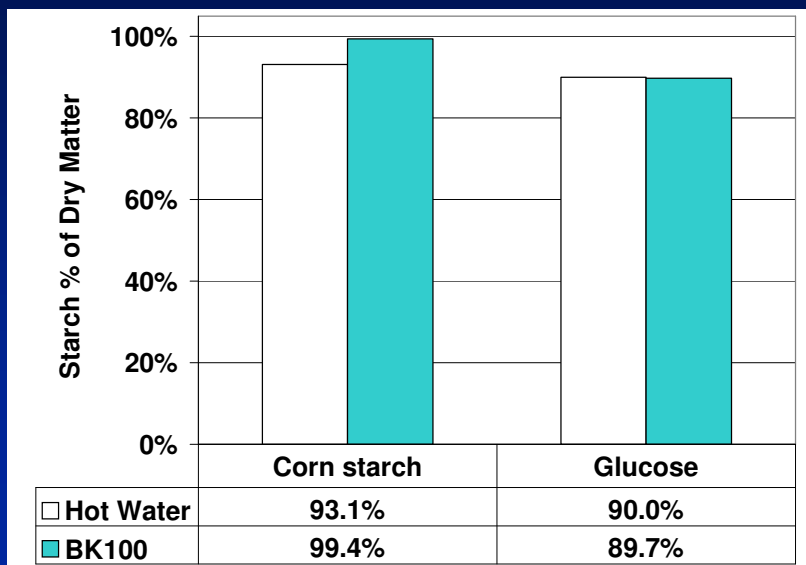


Starch: Bach Knudsen Method



- ☀ Buffer prepared with 0.1 M sodium acetate trihydrate and 0.1 M glacial acetic acid, adjusted to pH 5.0 (no effect of pH adjustment w/ HCl).
- ☀ Time cooling after 100C incubation did not matter (0.5 to 1 h).
- ☀ Used vortexing of sealed tubes rather than stirring with magnets.
- ☀ Evaluated 200, 100 and 50 Units of amyloglucosidase (AMG), and 50 U AMG + 10 U pullulanase. 100 U amyloglucosidase gave as good recovery as 200 U; pullulanase gave no advantage.

Starch: Bach Knudsen Assay



smear