















Techniques to test urea condensates

Extraction techniques

Determine soluble nutrients at a certain time



Chromatographic techniques

Identify and quanitify components by comparison with known standards



Methylene Urea methods

• Extraction tests: AOAC 945.01/955.01

Detemination of the amount of cold water soluble, hot water soluble and hot water insoluble nitrogen.

N determination by Kjeldhal Immerse 1 g in 20 ml water at room temperature and filter subsequently. Test N in residue

Extract 0,12 HWIN in phopshate buffer for 30 min at 100 $^{\circ}\text{C}.$ Filter and test N in residue







 From Chinese standard HG/T 3997-2008 and ISO norm proposals ISO 17322/17323

> Amount of urea released after 24 hr and 7 days in water at 38 °C

Immerse 20 g in mesh bag in 200 ml for 24 hours or 7 days in water at 38 °C. Determine N in solution by Kjeldhal or refractometer













