

# Isothermal Titration Calorimetry

Practical aspects

# Important Steps

- Put grease on o-rings
- Wetting the shaft
- Remove water droplets
- Positioning the cannula
- Mark the cannula position
- Filling the syringe



Put grease on the o-rings

Grease is added to reduce friction during stirring



Wet the shaft  
- flush water through  
lower inlet

Wetting is done to avoid  
water vapour transport  
along the shaft which  
may cause disturbances

# Remove water droplets

A water drop may clog the opening and result in built-up of pressure during injections

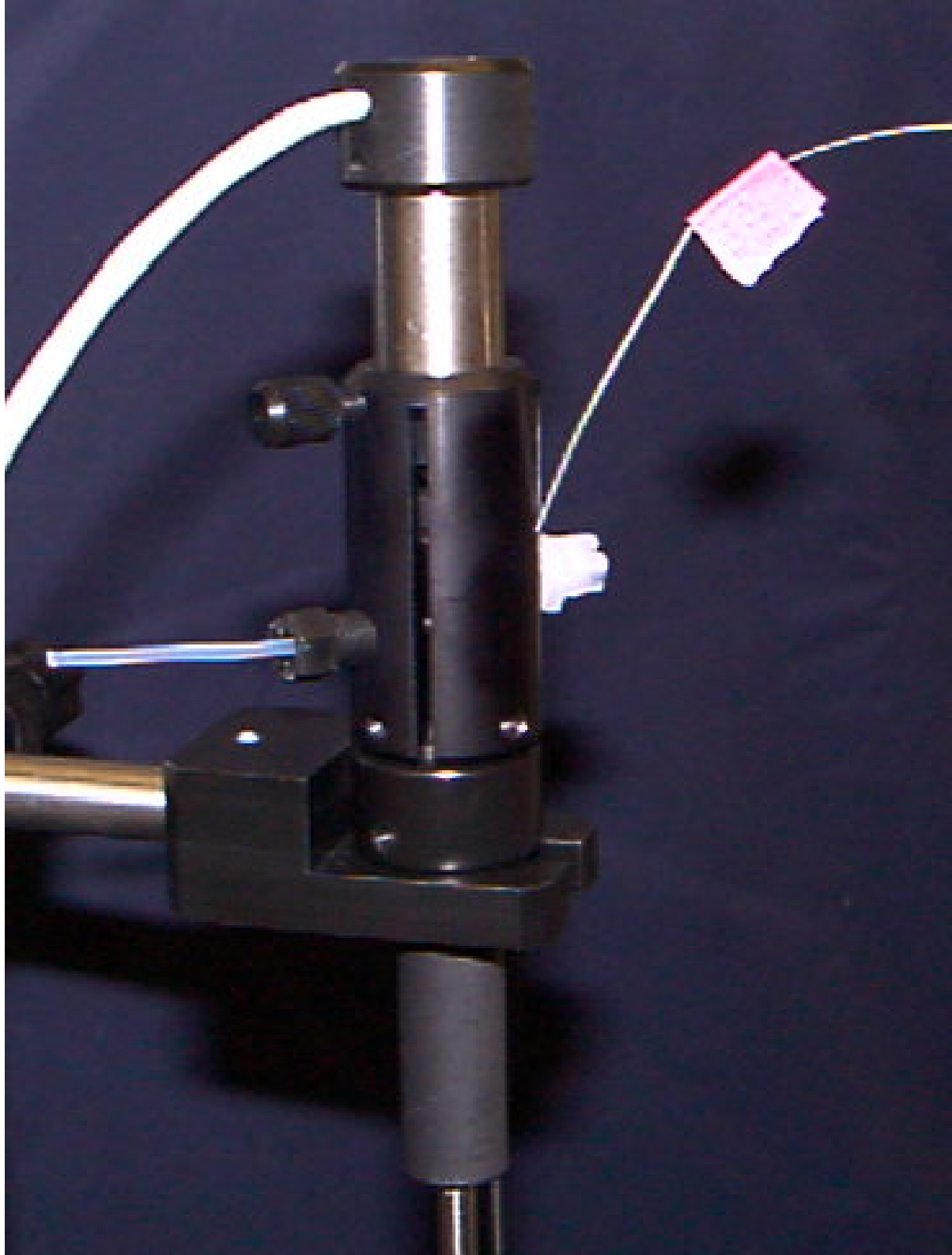




Positioning  
the cannula  
and stirrer

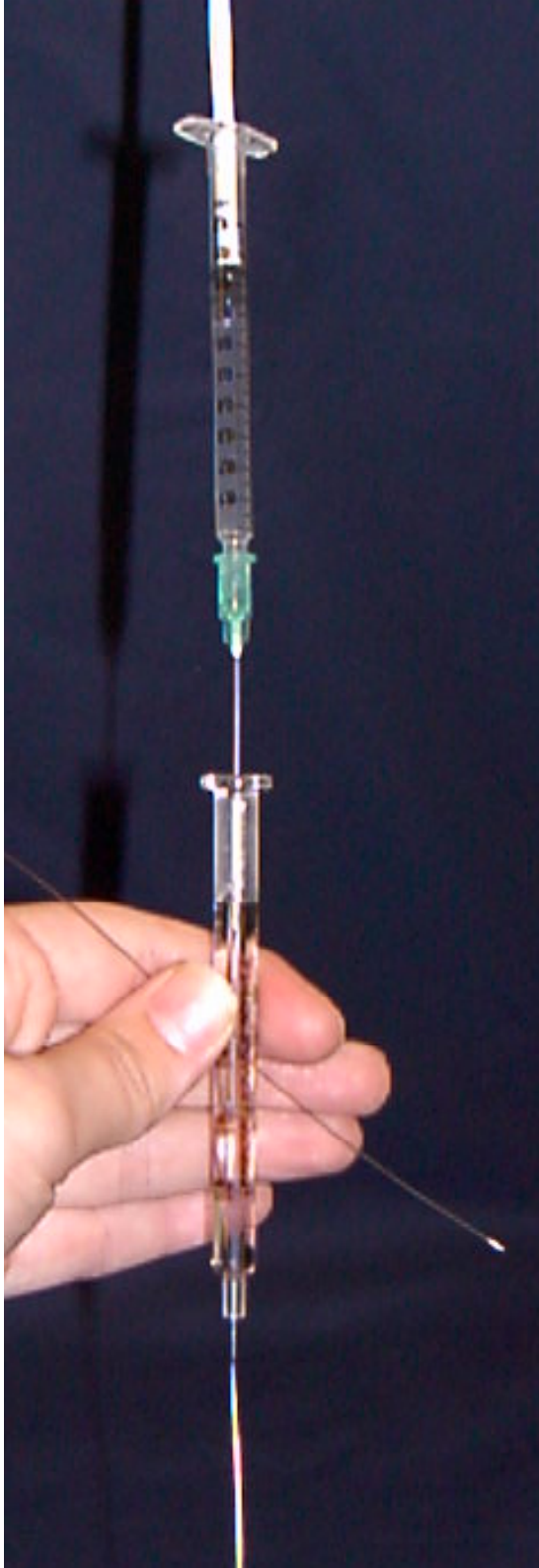
The stirrer should  
not touch the  
bottom.

The stirrer must  
be totally  
immersed in the  
solution.



## Mark Cannula position

After positioning the cannula must be removed for filling the syringe. The mark makes it easy for re-positioning the cannula in correct position.



## Filling the syringe

A filling tool should be used to fill the syringe.

Care must be taken to avoid air bubbles inside the syringe.

The syringe should be overfilled when filling the solution in the syringe before positioning the syringe piston.



END

**TAM**

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*Courses*