

Procedure: (For Deplasmolysis)

- (i) Place the blotting paper or filter paper at one side of cover slip to absorb or suck the sugar solution on slide.
- (ii) Add few drops of pure water to the opposite side of cover slip of each slide.
- (iii) Observe the process of deplasmolysis under microscope with some intervals.

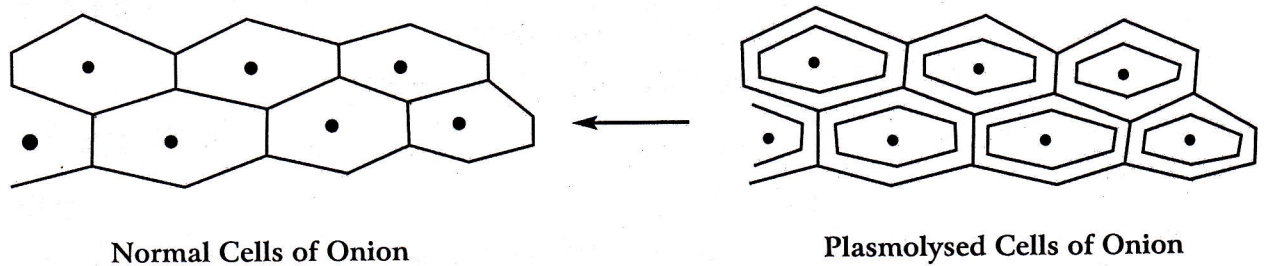


Fig. 31: Deplasmolysis

Observation of Deplasmolysis

Time	10% sucrose solution	20% sucrose solution	30% sucrose solution
0 min	Normal	Normal	Normal
5 min	+	+ +	+ + + +
10 min	+	+ +	+ + + +

Conclusion:

When cells are placed in **hypertonic solution**, the cells perform shrinkage of protoplasm due to **exosmosis**, it indicates the process of **plasmolysis**.

When plasmolysed cells are placed in **pure water**, they performed the opposite phenomenon i.e. return to their normal position. It is due to **endosmosis** and indicates the process of **deplasmolysis**.