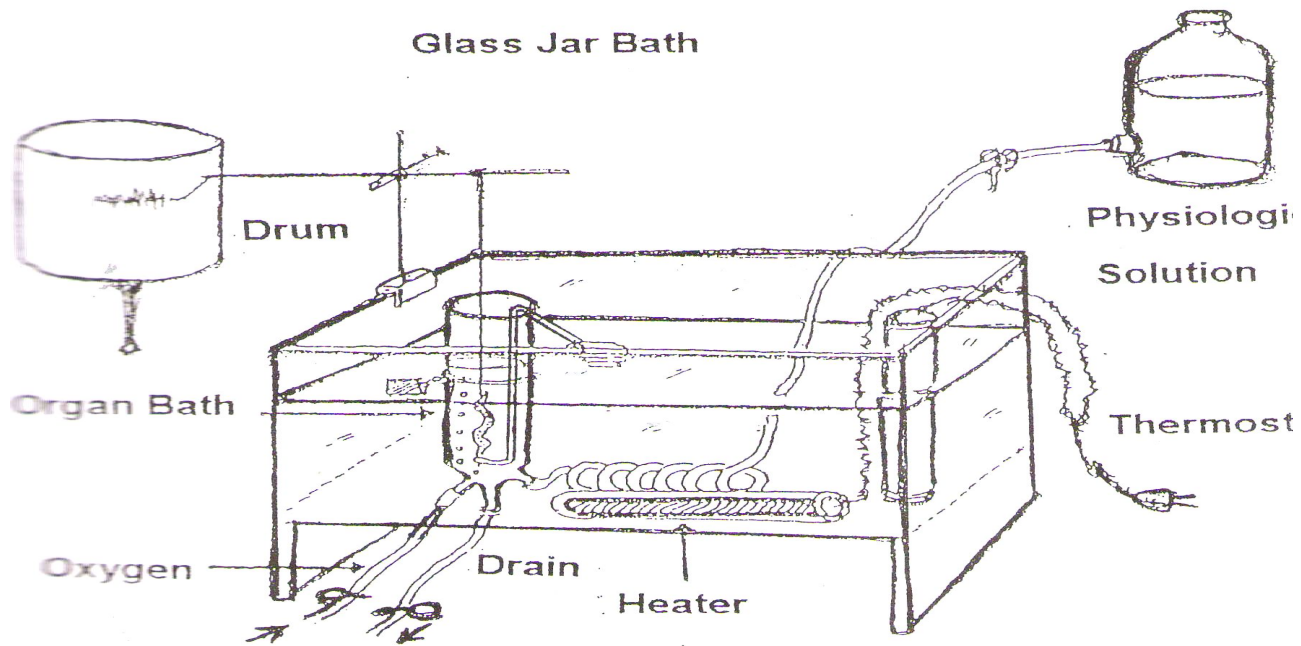


**Evaluation of Hyoscine ED₅₀ on
Pilocarpine-Induced Contractility
of Isolated Guinea Pig Ileum**

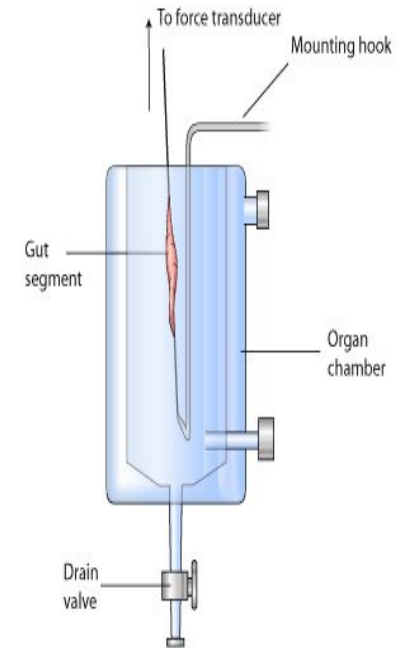
Principle

- ▶ Isolated guinea pig ileum has muscarinic acetylcholine (ACh) receptors which mediate the stimulatory effects of ACh and other cholinomimetics as pilocarpine.
- ▶ Antimuscarinics suppress cholinomimetics-induced contractility of this preparation.

Isolated Tissue Preparations



A simplified diagram showing the Kymograph and organ bath preparation



Assignment:

Different concentrations of hyoscine (1-14 mg/ml) were tested on isolated guinea pig ileum for their ability to suppress contractions induced by a fixed concentration of pilocarpine (2 mg/ml). Determine the percentage inhibition of pilocarpine-induced contractions by each concentration of hyoscine, and estimate the ED_{50} of hyoscine under this condition.

.Assignment

