



The Bile





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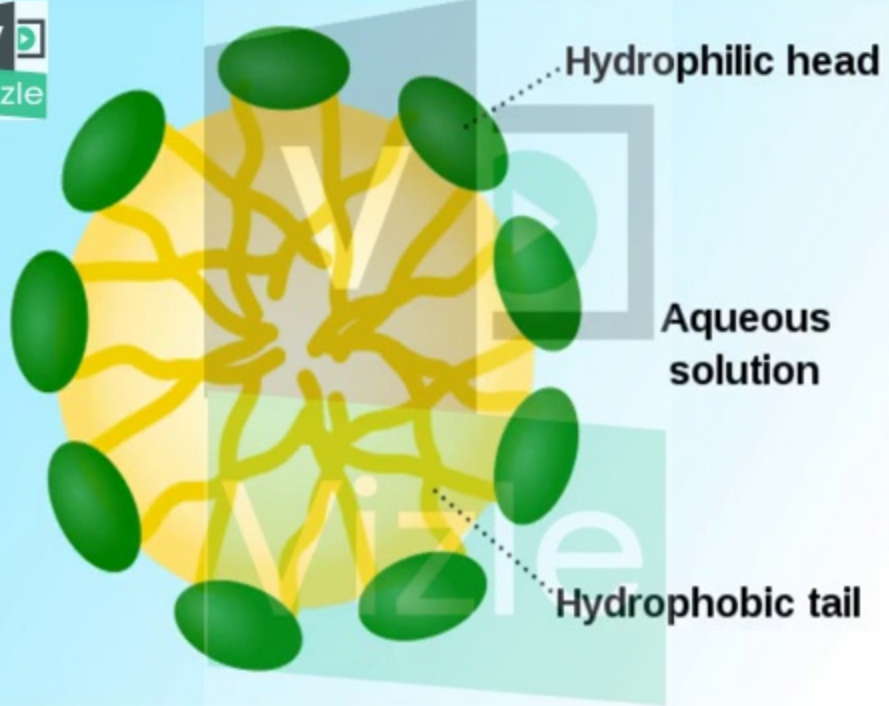
Composition:

Organic Constituents:

- (i) Bile salts (65%).
- (ii) Bile pigments (0.3%).
- (iii) Cholesterol (4%).
- (iv) Lecithin (20%), alkaline phosphatase & fatty acids.
- (v) Proteins (5%).

B/ Inorganic constituents:

Water + electrolytes (Na^+ , K^+ , Ca^{++} , Mg^{++} , Cl^- & HCO_3^-)



Hydrophilic head

Aqueous solution

Hydrophobic tail

Functions of gallbladder:

(1) Temporal storage of bile.

(2) concentration of bile.

(3) acidification of bile.

**Hepatic bile is 97% water & PH = 7.8-*

8.6

Gallbladder bile is 89% water & PH = 7-

7.4

Osmolality = 300 mosm/L.

(4) Secretion of mucus.

(5) Decreasing pressure in bile ducts.

V **Medical Presentation:**

- Pain in the right hypochondrium.
- Radiated to the shoulder (dermatomal origin)
- Induced by eating a fatty meal.

Diagnosis & Treatment:

U/s (visualization of stones)

- Control of infection (cholecystitis)
- surgical removal of gall bladder (Cholecystectomy).



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