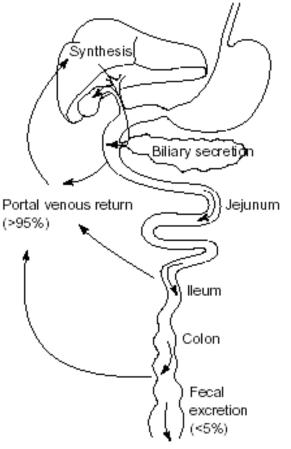
Choleretics, cholelitholytics

= drugs for enhancement of billiary secretion or for dissolving of gallstones

respectively

•functions of bile (gall



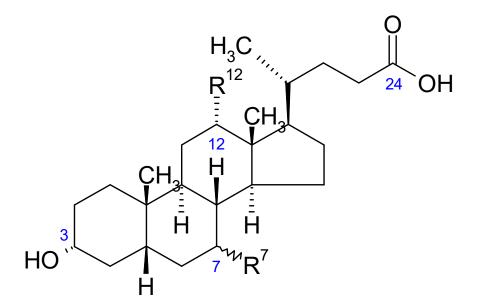
enzymatic hydrolysis

Enterohepatal circulation of billiary acids

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Billiary acids

•derivatives of cholan or cholan-24-oic acid respectively



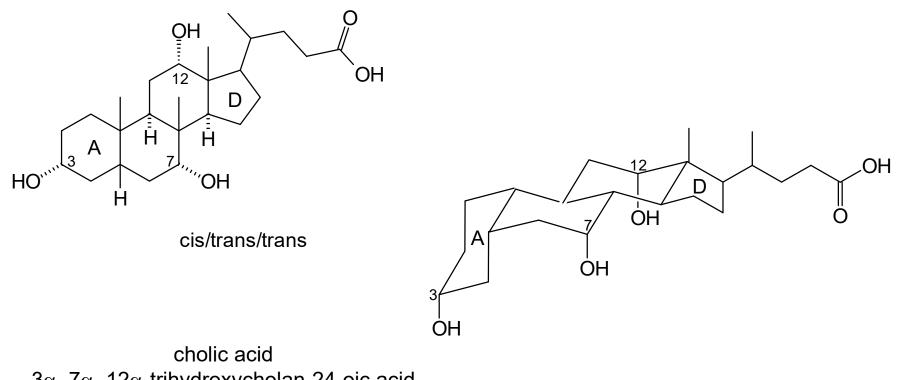
 $\begin{array}{ll} \mathsf{R}^7 & \mathsf{R}^{12} \\ \alpha\text{-}\mathsf{OH} & \text{-}\mathsf{OH} \\ \text{other ones} \\ \alpha\text{-}\mathsf{OH} & \text{-}\mathsf{H} \\ \beta\text{-}\mathsf{OH} & \text{-}\mathsf{H} \\ \text{cholelithiasis} \end{array}$

cholic acid - the most frequent one, raw material for synthesis of

chenodeoxycholic acid syn. chenodiol [USAN]

ursodeoxycholic acid syn. **ursodiol** [USAN] – drug for cholesterol Ursofalk[®], Ursosan^{®e}

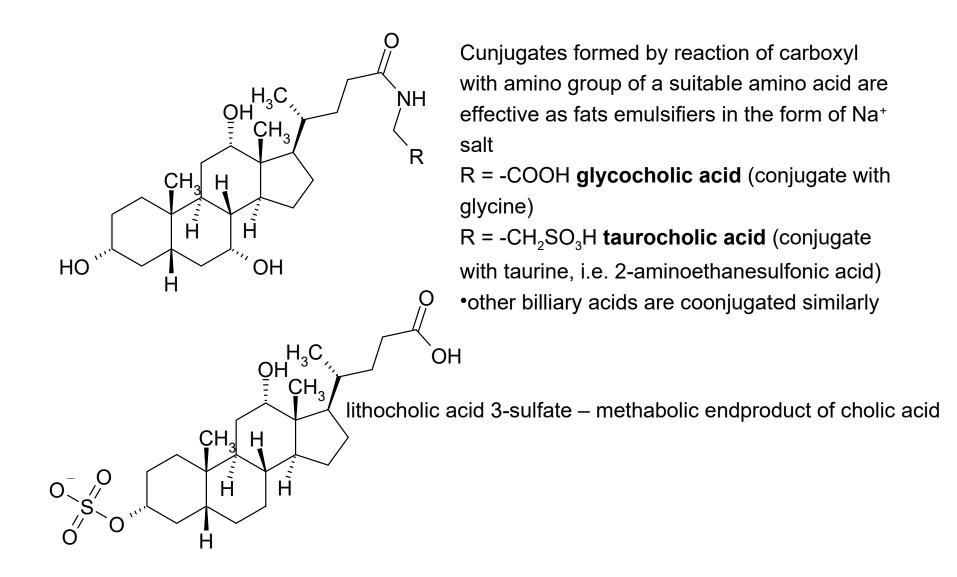
Cholic acid and its stereochemistry

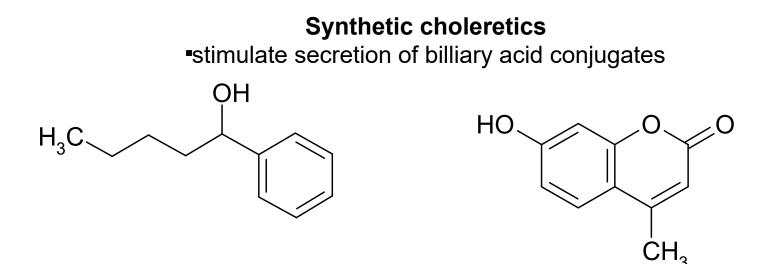


 3α , 7α , 12α -trihydroxycholan-24-oic acid

 3α -OH, e: easily esterificable 7α -OH and 12α -OH a: easily oxidable

Billiary acids conjugates





1-phenylpentane-1-ol

7-hydroxy-4-methyl-2*H*-chromene-2-on

fenipentol

•stimulates also secretion of pancreatic enzymes Febichol[®] cps.

hymecromone

 also spasmolytic lsochol[®] drg.