

Bilirubin Metabolism Chemistry

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Bilirubin in the bloodstream is usually in a free, or unconjugated, state; it is attached to albumin, a protein, as it is transported. Once in the liver it conjugates with glucuronic acid made from the sugar glucose. It is then concentrated to about 1,000 times the strength found in blood plasma.

Bilirubin Metabolism Chemistry

Bilirubin Metabolism Chemistry
Bilirubin is a yellow

compound that occurs in the normal catabolic pathway that breaks down heme in vertebrates. This catabolism is a necessary process in the body's clearance of waste products that arise from the destruction of aged or abnormal red blood cells.

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Bilirubin Metabolism Chemistry

Heme Metabolism and Disposition of Bilirubin The largest repository of heme in the human body is in red blood cells, which have a life span of about 120 days. There is thus a turnover of about 6 g/day of hemoglobin, which presents 2 problems. First, the porphyrin ring is hydrophobic and must be solubilized to be excreted.

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These processes all occur in the reticuloendothelial cells of the liver, spleen, and bone marrow. The bilirubin is then transported to the liver where it reacts with a solubilizing sugar called glucuronic acid.

This more soluble form of bilirubin (conjugated) is excreted into the bile.

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Bilirubin is a dark orange, yellow pigment that is the product of the breakdown of iron in the blood; it is conjugated in the liver and excreted in the bile. Bilirubin IX α is a member of the class of biladienes that is a linear tetrapyrrole with the dipyrrole units being of both exovinyl and endovinyl type.

Heme and Bilirubin Metabolism - The Medical Biochemistry Page

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Bilirubin - Wikipedia

Keywords: Bilirubin, bile pigments, bilirubin chemistry, bilirubin structure, heme oxygenase, oxidative stress, carbon monoxide, heme catabolic pathway.

Abstract: Unconjugated bilirubin (UCB), the principal mammalian bile pigment, is the end product of heme catabolism. Both belong to the superfamily of tetrapyrrolic compounds that serve multiple biological functions in animals and plants.

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Bilirubin As discussed with normal metabolism, bilirubin is a product of heme breakdown. It exists in conjugated (water soluble) and unconjugated (lipid soluble) forms, which are reported imprecisely as the direct and indirect fractions, respectively. Serum bilirubin is usually less than 1 mg/dL and primarily unconjugated.

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Bilirubin is produced in the macrophage-monocyte system by the breakdown of hemoglobin to biliverdin and then bilirubin. Bilirubin is carried in the plasma to the liver, where it is conjugated to form bilirubin diglucuronide and excreted in the bile. Bilirubin level thus serves as a measure of liver and bile tract function.

Evaluating Liver Test Abnormalities: Bilirubin Metabolism

The role of Z-lumirubin (the principle bilirubin PI) on the dissociation of bilirubin from albumin was tested by several methods: peroxidase, fluorescence quenching, and circular dichroism. The biological effects of major bilirubin PI (cell viability, expression of selected genes, cell cycle progression) were tested on the SH-SY5Y human ...

The Biological Effects of Bilirubin Photoisomers

Chemistry Bilirubin Metabolism Chemistry As discussed with normal metabolism, bilirubin is a product of heme breakdown. It exists in conjugated (water soluble) and unconjugated (lipid soluble) forms, which are reported imprecisely as the direct and indirect fractions, respectively. Serum bilirubin is usually less than 1 mg/dL and Bilirubin Metabolism Chemistry

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Bilirubin Metabolism Chemistry Bilirubin is a yellow compound that occurs in the normal catabolic pathway that breaks down heme in vertebrates. This catabolism is a necessary process in the body's clearance of waste products that arise from the destruction of aged or abnormal red blood cells. First the hemoglobin gets

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Bilirubin. Bilirubin is considered a test of hepatic function, in essence the ability of the hepatocyte to take up unconjugated bilirubin in blood, conjugate it (render it water-soluble) and excrete bilirubin into bile, where it is broken down in the intestine by bacteria. However, in reality, bilirubin is not used as a test of the functional capacity of the liver (rather bile acids and ammonia are the more common tests used

for this) but more as a marker of liver disease (with and without ...

Bilirubin Chemistry and Metabolism; Harmful and Protective ...

At that time, the mechanism underlying the serum bilirubin concentration decrease by phototherapy was still unknown. The mechanism was identified by chemists, biochemists, and pediatricians. Clarification started with the report that unconjugated bilirubin was excreted into bile after photoirradiation in Gunn rats.

Bilirubin - Department of Chemistry - Elmhurst College

Bilirubin (BR) is a yellow compound that occurs in the normal catabolic pathway that breaks down heme in vertebrates. This catabolism is a necessary process in the body's clearance of waste products that arise from the destruction of aged or abnormal red blood cells. First the hemoglobin gets stripped of the heme molecule which thereafter passes through various processes of porphyrin catabolism ...

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Bilirubin Metabolism Heme, the substrate of bilirubin, is derived from red blood cells that have died. Heme is degraded to biliverdin by heme oxygenase in the mononuclear phagocytes. Biliverdin is subsequently

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reduced to bilirubin by biliverdin reductase.

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