

Hydroxyproline Assay Kit

Hydroxyproline assay kit (Alkali hydrolysis method)

CATALOG #
AAA172694

PRODUCT SYNONYMS

Hydroxyproline; Hydroxyproline assay kit (Alkali hydrolysis method); Hydroxyproline assay kit

PRODUCT SPECIFICATIONS

Samples	Animal serum, plasma, tissue, urine and other samples.
Preparation and Storage	Store at 2-8 degree C. Valid for 12 months

ADDITIONAL INFORMATION

Related Product Information for Hydroxyproline assay kit

Background/Introduction: Hydroxyproline accounts for 13.4% in collagen and very little in elastin, but cannot be found in other proteins. Collagen is mostly distributed in skin, tendon, cartilage, blood vessels, etc. So the amount of hydroxyproline can reflect the collagen metabolism of the connective tissue disease. The determination of hydroxyproline in skin is a screening index of anti-aging medicines. The excretion of hydroxyproline will increase with age in development stage, then keep stable after non-development. The hydroxyproline in elderly is less than in the young. When rats suffer from spontaneous hypertension and secondary hypertension, the content of hydroxyproline will increase in their urine. Surgical trauma will result in an increase of hydroxyproline in the urinary excretion. High lipid, low protein, alcoholic poisoning toxicant, malnutrition, or liver cell degeneration and necrosis will lead to the increase of fiber by inflammation which splits liver lobule, leading to cirrhosis of the liver. When the liver fibrosis, the collagen fibers are the mainly increasing composition in liver, which uniquely contains the hydroxyproline. The content of liver hydroxyproline can be converted to the content of the liver collagen, reflecting the degree of liver fibrosis. The decomposition of collagen fiber mainly depends on collagen enzyme and other protease. The hydroxyproline decomposed products will be excreted by the urine. The collagen degradation can be reflected by the content of urinary hydroxyproline. By determining the content of hydroxyproline in the tissue and urine, the degree of fibrosis can be judged, and the preventing and treating drugs can also be screened. This kit can be used to detect the content of hydroxyproline(HYP) in animal serum(plasma),tissue urine etc.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/hydroxyproline/172694>