

Hydroxyproline & Collagen Assay Kits

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Hydroxyproline (Hyp) is a non-standard amino acid, found in collagen (COL), which contains 12-14% Hyp by mass. Hyp measurement is a direct measure of the amount of COL. COL is the most abundant protein in mammals and several conditions (i.e. tumor invasion/metastasis, rheumatoid arthritis, cardiopulmonary fibrosis) affect its turnover. Hyp and Collagen estimation protocols are based upon Hyp oxidation and Ehrlich's reagent under acidic conditions (Perchloric Acid- PCA). However, PCA requires special handling and waste-disposal protocols. BioVision's Hydroxyproline Assay Kits (**K555 & K206**) and Total Collagen Assay Kits (**K218 & K406**) use proprietary developer solutions to accurately measure Hyp and COL in tissue and protein/peptidase hydrolysates. They are quick, can detect a minimum of 0.05 µg hydroxyproline/0.5 µg collagen per well in a 96-well format and generate colorimetric results that are virtually identical.

Key Features:

- **Non-radioactive**, homogeneous assays
- **Specific assays**
- **Convenient**: minimal sample preparation; fast protocols
- **Cost effective**: 50/100 assays; **High Throughput Screening compatible**
- **Validated**: using mammalian tissues, biological fluids

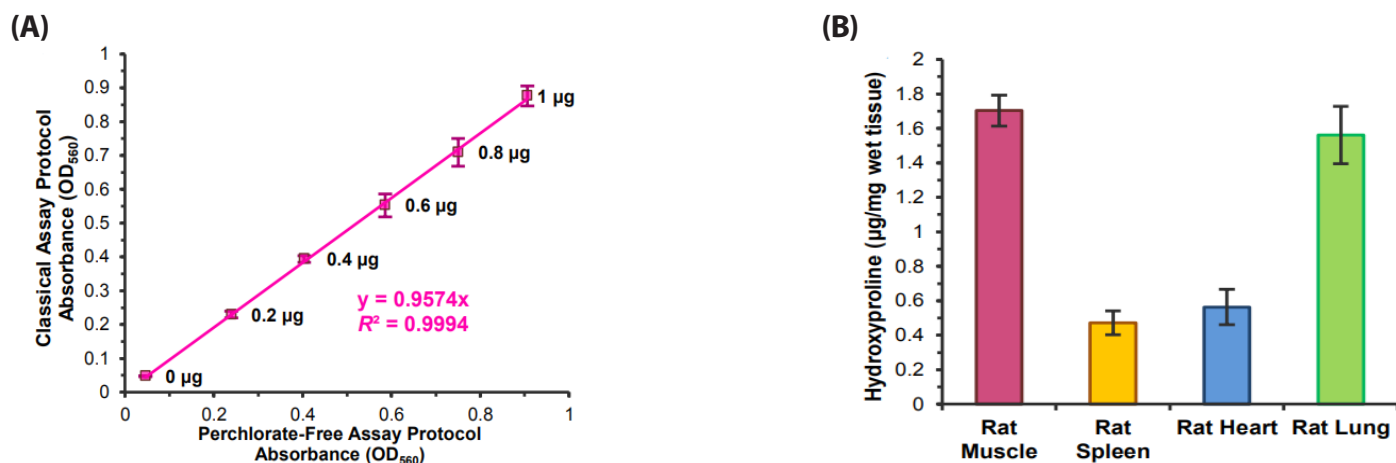


Figure: (A) Correlation between hydroxyproline standard curve absorbance values obtained using the classical PCA-based assay kit (**K555-100**) and the PCA-free assay (**K226-100**). Both methods show excellent correlation ($R^2 > 0.999$). (B). Estimation of total hydroxyproline content in rat tissues using **K226-100**. Data are mean \pm SEM of 3-4 replicates, assayed according to the kit protocols.

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Hydroxyproline Assay Kits

Cat. No.	Method	Perchloric Acid	Hydrolysis (pH)	Hydrolysis time (h)	Reaction Temperature (°C)	Reaction time (min)	OD (nm)
K555	Classic Method	Yes	Acid (HCl)	3	65	90	560
K226	PCA-Free	No	Alkaline (NaOH)	1	65	45	560

Total Collagen Assay Kits

Cat. No.	Method	Perchloric Acid	Hydrolysis (pH)	Hydrolysis time (h)	Reaction Temperature (°C)	Reaction time (min)	OD (nm)
K218	Classic Method	Yes	Acid (HCl)	3	65	90	560
K406	PCA-Free	No	Alkaline (NaOH)	1	65	45	560

Hydroxyproline Total Collagen	K555 (Classic Method) K218 (Classic Method)	K226 (PCA-Free) K406 (PCA-Free)
Perchloric Acid	Yes	No
Hydrolysis (pH)	Acid (HCl)	Alkaline (NaOH)
Hydrolysis time (h)	3	1
Reaction Temperature (°C)	65	65
Reaction time (min)	90	45
OD (nm)	560	560

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