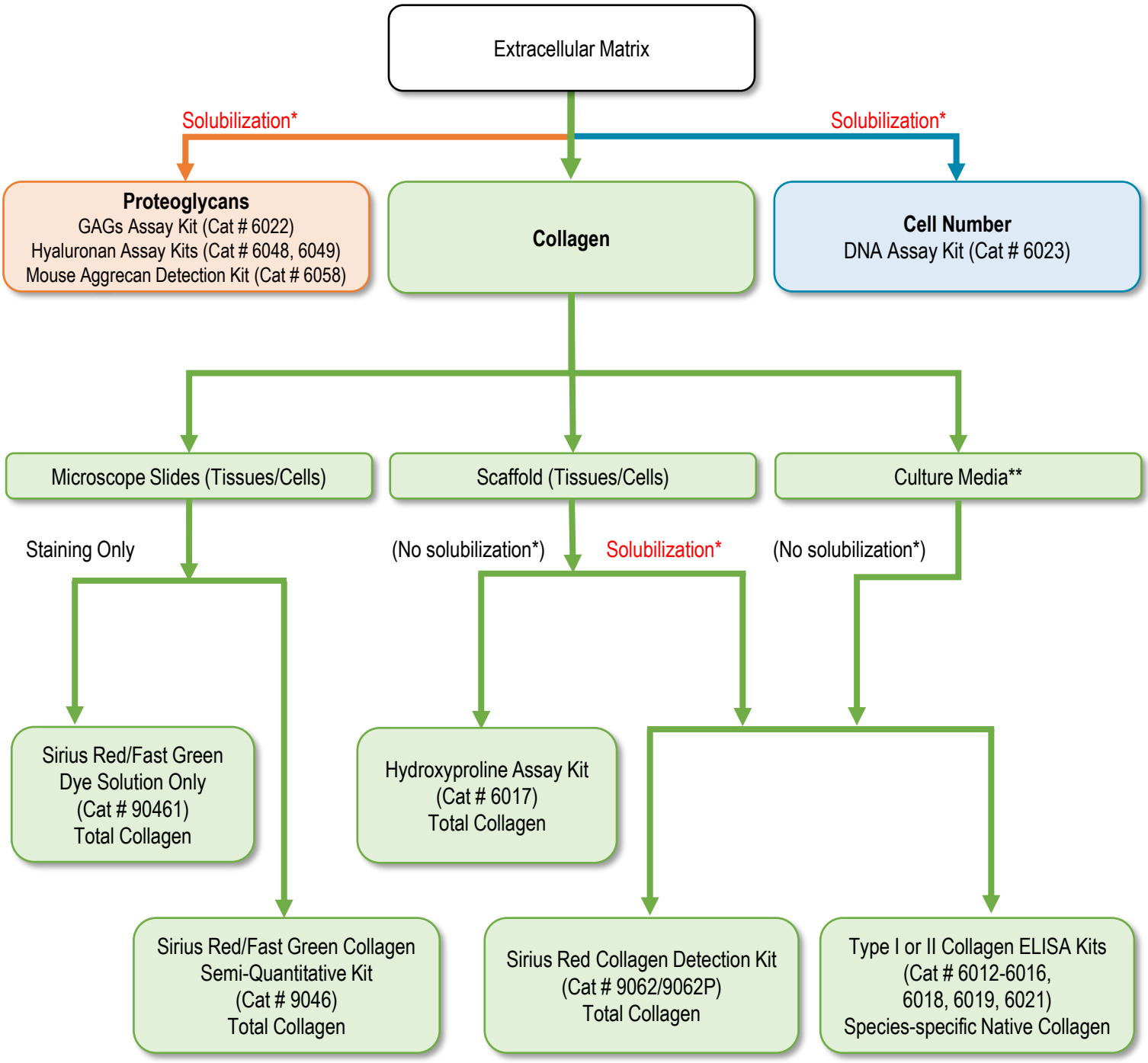
Extracellular Matrix Analysis

Connective tissue is composed of cells surrounded by the extracellular matrix (ECM), a complex mixture of collagens and glycosaminoglycans (GAGs). Collagen, the most abundant protein family in connective tissues, plays a critical role in forming the ECM. Chondrex, Inc. provides the following flow chart to aid researchers in choosing the appropriate kits for ECM and collagen analysis.

Kit Selection Flowchart For Analysis



*Solubilization of samples requires special attention. Please contact Chondrex, Inc. at support@chondrex.com for more information.
**9062/9062P using culture media samples will require concentrating solution (Catalog # 90626). Please contact Chondrex, Inc. at support@chondrex.com for more information.

Extracellular Matrix Analysis

Type I Collagen Detection ELISA Kits

Target	Assay Range (µg/ml)	Types of Samples	Sample Form	Catalog #
Bovine Type I Collagen	10 - 0.16	Tissue/Cultured Cells	Solubilized	6014
Human Type I Collagen	5 - 0.08	Tissue/Cultured Cells	Solubilized	6021
Mouse Type I Collagen	5 - 0.08	Tissue/Cultured Cells	Solubilized	6012
Porcine Type I Collagen	5 - 0.08	Tissue/Cultured Cells	Solubilized	6015
Rat Type I Collagen	5 - 0.08	Tissue/Cultured Cells	Solubilized	6013
Rabbit Type I Collagen	5 - 0.08	Tissue/Cultured Cells	Solubilized	6016
Canine Type I Collagen	10 - 0.16	Tissue/Cultured Cells	Solubilized	6019
Human/Mouse C-Telopeptide	0.5 - 0.008	Tissue/Cultured Cells/Serum	Solubilized	6033
Mouse N-Telopeptide	0.02 - 0.0003	Urine/Cultured Cells/Serum	Solubilized	6040

Type II Collagen Detection ELISA Kit

Species	Assay Range (ng/ml)	Types of Samples	Sample Form	Catalog #
Multi-Species	200 - 3.1	Tissue/Cultured Cells	Solubilized	6018

Hydroxyproline Detection Kit

Species	Assay Range (µg/ml)	Types of Samples	Sample Form	Catalog #
Multi-Species	400 - 6.3	Tissue/Cultured Cells	Unsolubilized/Solubilized	6017

Sirius Red Collagen Detection Kit (Tube or Plate Method)

Species	Assay Range (µg/ml)	Types of Samples	Sample Form	Catalog #
Multi-Species	500 - 7.8	Tissue/Cultured Cells	Solubilized	9062/9062P

Sirius Red/Fast Green Collagen Semi-Quantitative Kit

Species	Assay Sensitivity	Types of Samples	Sample Form	Catalog #*
Multi-Species	> 3 µg/section	Tissue/Cultured Cells	Tissue Slides	9046

*NOTE: The Sirius Red/Fast Green Staining Dye Solution is also available for sale as an individual reagent: Cat # 90461 (10 ml) or Cat # 90463 (250 ml)

Proteoglycan Assay Kits

Target	Assay Range (µg/ml)	Types of Samples	Sample Form	Catalog #
GAGs	50 - 3.1	Tissue/Cultured Cells	Solubilized	6022
Hyaluronans (<150 kDa)	1000-16 ng/ml	Tissue/Cultured Cells/Serum	Solubilized	6048
Hyaluronans (>150 kDa)	1000-16 ng/ml	Tissue/Cultured Cells/Serum	Solubilized	6049
Mouse Aggrecan	100-1.6 ng/ml	Tissue/Cultured Cells/Serum	Solubilized	6058

DNA Assay Kit

Species	Assay Range (µg/ml)	Types of Samples	Sample Form	Catalog #
-	10 - 0.16	Tissue/Cultured Cells	Solubilized	6023