

COMPARISON ACID SOLUBLE AND PEP SIN SOLUBLE COLLAGEN

N-Terminal Amino Acid Sequence of Bovine Type I Collagen:

Collagen	Aminoterminal Telopeptide	Triple Helical Region	Collagen Type I Polypeptide
	pQLSYGYDEKSTGISVP	GPMGPSGPRGLOGPOGAOG.....	α -1
Acid Soluble Collagen	pQLSYGYDEKSTGISVP	GPMGPSGPRGLOGPOGAOG.....	α -1
	pQFDAKGGGP	GPMGLMGPRGPOGASGOAG.....	α -2
	ISVP	GPMGPSGPRGLOGPOGAOG.....	α -1
Pepsin Soluble Collagen	DEKSTGISVP	GPMGPSGPRGLOGPOGAOG.....	α -1
	DAKGGGP	GPMGLMGPRGPOGASGAOG.....	α -2

Comparison of Collagen Gels:

Collagen	Telo-Peptide	Gel Strength	Gel Structure	Gel Appearance
Acid Soluble Collagen	Telo-peptide Intact	Slightly stronger than pepsin solubilized	Straight fibrils, mesh-like structure	Transparent to White Gel
Pepsin Soluble Collagen	Telo-peptide Removed	Slightly weaker than acid solubilized	Loosely twisted fibrils, smaller mesh work, sponge-like	Clear to Transparent Gel