

Table S1. The identified peptides in bovine bone gelatin hydrolysate by Nano-LC-MS/MS (MW<3 KDa) (Cao et al., 2022).

Peptide	ALC (%)	Source of Protein	Peptide	ALC (%)	Source of Protein
PGFR	99	collagen a <sub>3</sub> (IV)	LGDEPGPK	75	collagen a <sub>1</sub> (III)
KGPR	99	collagen a <sub>1</sub> (VII)	LGP <sup>P</sup> GPPGLK	75	collagen a <sub>1</sub> (VII)
MGPR	99	collagen a <sub>1</sub> (I)	PGPGAPPGLR	75	collagen a <sub>1</sub> (XXII)
RGPR	99	collagen a <sub>3</sub> (VI)	AVPGQR	75	—
VGPR	99	collagen a <sub>1</sub> (V)	EGPGAGK	75	collagen a <sub>2</sub> (V)
PGQR	98	collagen a <sub>1</sub> (VII)	KGEGSKGPR	75	collagen a <sub>1</sub> (I)
GPLGSR	97	collagen a <sub>3</sub> (VI)	PGAPFLPQE	75	—
LGPGSR	96	—	QPPFLPQE	75	—
GKRGAR	96	collagen a <sub>1</sub> (I)	SGRGPK	75	collagen a <sub>1</sub> (VII)
GPPGAR	95	collagen a <sub>3</sub> (V)	LGMQ <sup>P</sup> GAR	74	collagen a <sub>2</sub> (IV)
KGHGNR	94	—	AGGMYGPK	74	—
TGLR	94	—	LGMQPGAR	74	collagen a <sub>2</sub> (IV)
PGLGSR	93	—	MGLGPK	74	—
QPGPK	92	collagen a <sub>1</sub> (II)	GPAATPGPK	74	collagen a <sub>2</sub> (XI)
RGGPGSR	91	collagen a <sub>1</sub> (I)	GPLGPPGLK	74	collagen a <sub>1</sub> (XI)
KSGGPR	91	collagen a <sub>5</sub> (VI)	GPLGSR	74	collagen a <sub>3</sub> (VI)
VAPGQR	90	—	HGPGPLGPPGPR	74	collagen a <sub>1</sub> (I)
GSPAGPR	88	collagen a <sub>1</sub> (II)	KPGTDPGAA	74	—
LGPGER	88	collagen a <sub>1</sub> (III)	PGLGPPGLK	74	collagen a <sub>5</sub> (IV)
VAPGQR	88	collagen a <sub>3</sub> (VI)	VAPGGAR	74	—
VGAGPK	88	—	LGPLLK	74	—
FGPGPK	87	collagen a <sub>1</sub> (III)	RGFSL	74	collagen a <sub>1</sub> (I)
LGPGER	87	collagen a <sub>3</sub> (VI)	GMLGPK	73	collagen a <sub>1</sub> (V)
GPLGER	86	collagen a <sub>3</sub> (V)	MGLGGR	73	—
GSKGPR	86	collagen a <sub>1</sub> (I)	AALGLPGQR	73	collagen a <sub>1</sub> (XVI)
VAPGER	85	collagen a <sub>1</sub> (I)	KATMPGPK	73	collagen a <sub>1</sub> (XVI)
GLPGQR	85	collagen a <sub>1</sub> (I)	LGPGEVG	73	collagen a <sub>2</sub> (XI)
VAPGER	85	collagen a <sub>1</sub> (I)	PGAPAATPPGPQ	73	—
AAAMPGFR	84	collagen a <sub>1</sub> (III)	PGMGFR	73	—
GPLGPK	83	collagen a <sub>1</sub> (II)	PGVGGPGLR	73	collagen a <sub>1</sub> (III)
PGLPGPR	83	collagen a <sub>6</sub> (IV)	SGPAGGVP	73	collagen a <sub>1</sub> (XVIII)
LGP GPA	82	—	AAAPLGVA	72	—
PGAGFPGAR	82	collagen a <sub>2</sub> (IV)	LGPQDGR	72	—
PGATGMPGFR	82	collagen a <sub>6</sub> (IV)	NVP <sup>P</sup> GPPGAP	72	collagen a <sub>5</sub> (IV)
AAAEGMPGFR	81	collagen a <sub>1</sub> (III)	PGLGPAGGVP	72	collagen a <sub>1</sub> (X)
AVPGSR	81	collagen a <sub>2</sub> (XI)	RGVGPPGSP	72	collagen a <sub>4</sub> (IV)
LGP GQR	81	—	TGPAGFPGER	72	collagen a <sub>5</sub> (IV)
PGPQR	81	—	TPGGDGAGPK	72	collagen a <sub>1</sub> (I)
VAPGPK	81	collagen a <sub>1</sub> (VII)	VADEPGPK	72	collagen a <sub>3</sub> (IV)
DVGGPGR	81	collagen a <sub>3</sub> (V)	CTVAGR	72	—

VAMGAGL	80	—	GPLGFPGSP	72	collagen a <sub>2</sub> (I)
LGPGAK	80	collagen a <sub>1</sub> (XII)	KGSGPR	72	—
LGPGGK	80	collagen a <sub>1</sub> (XII)	PGAGDPGPK	72	collagen a <sub>1</sub> (V)
LGPGPK	80	collagen a <sub>5</sub> (VI)	PQPFLPQE	72	—
GPSGGVP	80	—	VGMATGR	71	—
KPCDGAGPK	80	collagen a <sub>1</sub> (I)	AAAPTKLPGAA	71	—
LGFPGPAGPR	79	collagen a <sub>3</sub> (IV)	FGPGER	71	Hyp
LGPGPAGGVP	79	collagen a <sub>1</sub> (III)	GHPGPGLPPGPR	71	collagen a <sub>1</sub> (III)
NVMPGFR	79	—	PGLQPGPVG	71	collagen a <sub>3</sub> (VI)
PGPGPPGLR	79	collagen a <sub>2</sub> (I)	RGFPGPK	71	collagen a <sub>1</sub> (V)
GPMGPR	79	collagen a <sub>1</sub> (I)	RGPGPPIGAP	71	collagen a <sub>1</sub> (I)
RFGSGL	79	collagen a <sub>2</sub> (XI)	AALGLPGQR	71	collagen a <sub>1</sub> (XVI)
VAPLLK	79	—	DAVGGFPGE	75	collagen a <sub>1</sub> (VI)
FGLPGPAGPR	78	collagen a <sub>2</sub> (I)	AGPPFLPQE	71	—
GLPGQR	78	collagen a <sub>1</sub> (I)	GPFGPK	71	collagen a <sub>6</sub> (IV)
GPLGQR	78	collagen a <sub>3</sub> (V)	KPGMLGPGA	71	collagen a <sub>3</sub> (V)
GPLQPGPR	78	—	LGPQPGR	71	collagen a <sub>3</sub> (V)
MGPGFR	78	collagen a <sub>3</sub> (V)	PGCSLGFR	71	—
PGAGFPGAR	78	collagen a <sub>2</sub> (IV)	RGPPGPM	71	—
PGGAALPGGK	78	collagen a <sub>2</sub> (IV)	TCLGGR	71	collagen a <sub>1</sub> (XI)
PGPGPPGLR	78	collagen a <sub>2</sub> (I)	VALGLSG	71	—
AAAVPGPPGAV	78	collagen a <sub>1</sub> (I)	GMLGGR	70	collagen a <sub>2</sub> (IV)
FGPGPK	78	collagen a <sub>1</sub> (III)	AAAFPGLPGSP	70	collagen a <sub>1</sub> (VII)
GGAR	78	—	AAAVGPPGSP	70	collagen a <sub>6</sub> (IV)
AAALPGVA	77	collagen a <sub>2</sub> (I)	GPFGPK	70	collagen a <sub>1</sub> (XVIII)
AAAPGPPGAP	77	collagen a <sub>1</sub> (III)	KGNDPGPK	70	collagen a <sub>5</sub> (IV)
LGAGPPGAR	77	collagen a <sub>2</sub> (I)	LGPQQVG	70	—
PAGGPPGPK	77	collagen a <sub>1</sub> (V)	PGADGFRAGPK	70	collagen a <sub>2</sub> (I)
PGLQPGPR	77	collagen a <sub>6</sub> (IV)	PGAERGR	70	—
PGPGSR	77	collagen a <sub>1</sub> (XII)	PGFGAPGAR	70	—
RGPPGPM	77	collagen a <sub>1</sub> (XI)	PGGVGPPGAP	70	collagen a <sub>1</sub> (I)
SGPAGPR	77	collagen a <sub>1</sub> (I)	PGMVVLPGAP	70	—
AAAFPGER	76	collagen a <sub>1</sub> (XI)	AAVCTPGAR	70	—
AAAVGPPPAGV	76	collagen a <sub>4</sub> (IV)	PGLGFPGSP	70	collagen a <sub>4</sub> (IV)
FGLPGPAGPR	76	collagen a <sub>2</sub> (I)	PLGLLK	70	—
PGAGLPGPR	76	collagen a <sub>1</sub> (XXVII)	PPGAFLPQE	70	—
PGPGSAPPGLR	76	collagen a <sub>1</sub> (XXII)	VALGLGS	70	—
PGLGPGLK	76	collagen a <sub>5</sub> (IV)	VPGNLPGSP	70	—
SSKGPM	76	collagen a <sub>1</sub> (V)			

Note: Red P means hydroxyproline; ALC: average local confidence