

Supplementary material

Table S1. List of the identified α -lactalbumin peptides with glycosylated lysine residues after tryptic and chymotryptic *in solution* digestion.

Trypsin	Chymotrypsin
QINNKIW	TKCEVFRELKDL
IWCKDDHNPSSNICNISCDK	TKCEVFREL
DDHNPSSNICNISCDK	RELKDL
FLDDDLTDDIMCVKK	KDLKGYGGVSL
DKFLDDDLTDDIM	QINNKIW
ILDKVGINY	IWCKDDHNPSSNICNISCDK
LDQWLCEK	CKDDHNPSSNICNISCDKFL
	KILDKVGINY
	LAHKALCSEKLDQW
	LAHKAL

For the identification of the glycation sites the analysed modifications were: lactosylation, glycation with a hexose and carboxymethylation (marker of the advanced Maillard reaction).

Table S2. List of the identified β -lactoglobulin peptides with glycosylated lysines after tryptic and chymotryptic *in solution* digestion.

Trypsin	Chymotrypsin
LIVTQTMKGLDIQK	DIQKVAGTW
GLDIQKVAGTWY	VEELKPTPEGDLEIL
VYVEELKPTPEGDLEILLQK	VEELKPTPEGDLEILLQK
VYVEELKPTPEGDLEILLQKWENGECAQKKIAEK	VEELKPTPEGDLEILLQ
VYVEELKPTPEGDLEIL	VEELKPTPEGDLEILL
WENGECAQK	WENGECAQKK
WENGECAQKK	ENGECAQKKIAEKTIPAVF
IAEKT	IAEKT
IAEKTIPAVFK	KIDALNENKVL
IDALNENKVLVLDTDYK	KIDALNENKVLVL
IDALNENKVL	VLVLDTDYKKY
KIDALNENKVL	DTDYKKYLLF
VLVLDTDYKK	VRTPEVDDEALEK
TPEVDDEALEKFDK	VRTPEVDDEALEKF
TPEVDDEALEKF	VRTPEVDDEALEKFDKAL
FDKALK	TPEVDDEALEKF
ALKALPMHIR	EKFDKALKAL

For the identification of the glycation sites the analysed modifications were: lactosylation, glycation with a hexose and carboxymethylation (marker of the advanced Maillard reaction).

Figure S1. SDS-PAGE gel image (1,2 = pasteurized milk; 3,4 = UHT milk; p = precipitated caseins; s = extracted whey). Marker values are expressed as kDa.

