

**Supplementary Table S13.** Complete list of bioactive peptides identified in the four cheeses. For each peptide, the sequence and species name corresponds to the peptide studied in the referenced articles from the literature.

Peptide	Species	Function	Casu Marzu	Mimolette	Stilton	Taleggio	Ref.
$\beta$ -lactoglobulin(41-56)	Bos taurus	Antimicrobial		x	x		114
$\beta$ -lactoglobulin(155-164)	Bos taurus	stimulates splenocyte proliferation		x			115
$\alpha$ s2-casein(96-104)	Bos taurus	ACE-inhibitory	x	x	x	x	116
$\alpha$ s2-casein(96-106)	Bos taurus	ACE-inhibitory	x	x			116
$\beta$ -lactoglobulin(158-164)	Bos taurus	ACE-inhibitory, reduced vasoconstrictorendothelin-1 release, stimulates splenocyte proliferation	x	x			115,117-119
$\alpha$ s2-casein(204-212)	Bos taurus	ACE-inhibitory		x		x	120
$\beta$ -casein(192-198)	Bos taurus	ACE-inhibitory, antimicrobial, antioxidant		x			121-125
$\beta$ -lactoglobulin(49-58)	Bos taurus	ACE-inhibitory	x	x			126,127
$\alpha$ s1-casein(172-179)	Bos taurus	ACE-inhibitory		x	x		122
$\beta$ -casein(199-217)	Bos taurus	Anti-inflammatory	x				103
$\beta$ -casein(115-122)	Bos taurus	Antimicrobial		x			124
$\beta$ -casein(123-128)	Bos taurus	ACE-inhibitory, antimicrobial, bradykinin-potentiating, increases MUC4 expression				x	122,124,128,129
$\beta$ -casein(137-144)	Homo sapiens	ACE-inhibitory				x	130
$\beta$ -casein(146-155)	Bos taurus	ACE-inhibitory				x	131
$\beta$ -casein(210-219)	Bos taurus	Cytomodulatory		x	x	x	132
$\beta$ -casein(210-221)	Bos taurus	ACE-inhibitory	x	x	x	x	133
$\alpha$ s2-casein(189-196)	Bos taurus	ACE-inhibitory, antioxidant		x		x	116,134
$\alpha$ s1-casein(38-49)	Bos taurus	ACE-inhibitory		x			116,117,135
$\alpha$ s1-casein(43-49)	Bos taurus	ACE-inhibitory		x		x	136
$\beta$ -casein(77-83)	Bos taurus	DPP-IV inhibitory		x			137
$\alpha$ s1-casein(39-48)	Bos taurus	ACE-inhibitory		x		x	131
$\alpha$ s1-casein(185-214)	Bos taurus	ACE-inhibitory		x	x	x	138
$\beta$ -casein(109-120)	Capra hircus	ACE-inhibitory	x				139
$\beta$ -casein(109-121)	Capra hircus	ACE-inhibitory	x				139

Peptide	Species	Function	Casu Marzu	Mimolette	Stilton	Taleggio	Ref.
$\beta$ -casein(109-138)	Bos taurus	Increases MUC2 expression, increases small intestinal goblet cell density, increases mMuc4 expression, opioid, promotes intestinal wound healing		x		x	129,140,141
$\alpha$ s1-casein(95-117)	Bos taurus	Antimicrobial		x		x	142
$\alpha$ s1-casein(95-118)	Bos taurus	Antimicrobial				x	142
$\alpha$ s1-casein(95-120)	Bos taurus	Antimicrobial				x	142
$\beta$ -casein(121-128)	Bos taurus	Antimicrobial	x	x	x	x	124
$\kappa$ -casein(119-126)	Ovis aries	ACE-inhibitory	x	x	x	x	143,144
$\beta$ -lactoglobulin(100-107)	Bos taurus	Antimicrobial, stimulates splenocyte proliferation	x				115,145,146
$\alpha$ s1-casein(201-212)	Bos taurus	ACE-inhibitory		x		x	133
$\beta$ -casein(64-71)	Bos taurus	PEP-inhibitory, prolyl endopeptidase-inhibitory		x		x	147,148
$\beta$ -lactoglobulin(89-100)	Capra hircus	Antimicrobial	x	x			149
$\beta$ -lactoglobulin(19-26)	Capra hircus	Antimicrobial	x				149
$\beta$ -lactoglobulin(114-122)	Bos taurus	DPP-IV Inhibitory		x			150,151
$\kappa$ -casein(72-81)	Capra hircus	DPP-IV Inhibitory	x	x			152
$\alpha$ s2-casein(209-220)	Bos taurus	Antimicrobial		x		x	123
$\alpha$ s2-casein(119-128)	Bos taurus	Antimicrobial	x	x	x	x	142
$\alpha$ s2-casein(203-208)	Bos taurus	Antimicrobial			x		123
$\alpha$ s2-casein(203-217)	Bos taurus	Antimicrobial		x			153
$\alpha$ s2-casein(203-222)	Bos taurus	Antimicrobial		x			153
$\beta$ -casein(184-189)	Bos taurus	ACE-inhibitory				x	154
$\beta$ -casein(184-190)	Bos taurus	ACE-inhibitory	x	x	x	x	120
$\beta$ -casein(184-191)	Bos taurus	Antioxidant	x	x	x	x	125
$\beta$ -lactoglobulin(48-56)	Bos taurus	ACE-inhibitory		x			155
$\beta$ -lactoglobulin(28-37)	Bubalus bubalis	ACE-inhibitory			x		156
$\alpha$ s1-casein(110-119)	Bos taurus	Antimicrobial		x		x	142
$\alpha$ s1-casein(107-116)	Bos taurus	Antimicrobial	x	x	x	x	142
$\beta$ -casein(206-224)	Bos taurus	ACE-inhibitory		x	x	x	138
$\beta$ -casein(150-155)	Bos taurus	DPP-IV Inhibitory		x	x	x	157

Peptide	Species	Function	Casu Marzu	Mimolette	Stilton	Taleggio	Ref.
$\beta$ -casein(85-112)	Bos taurus	ACE-inhibitory			x		138
$\alpha$ s1-casein(114-124)	Bos taurus	Antimicrobial		x			158,159
$\beta$ -casein(73-81)	Bubalus bubalis	ACE-inhibitory		x		x	160,161
$\beta$ -casein(73-82)	Bos taurus	ACE-inhibitory		x			162
$\beta$ -casein(73-87)	Bos taurus	ACE-inhibitory		x		x	163
$\beta$ -casein(73-83)	Capra hircus	ACE-inhibitory	x				139
$\beta$ -casein(159-166)	Capra hircus	Antimicrobial, DPP-IV Inhibitory	x				149,152
$\alpha$ s2-casein(205-212)	Bos taurus	ACE-inhibitory		x		x	120
$\beta$ -casein(124-133)	Bos taurus	ACE-inhibitory	x	x	x	x	133
$\beta$ -casein(88-97)	Bos taurus	ACE-inhibitory		x		x	164
$\beta$ -casein(147-155)	Bos taurus	ACE-inhibitory		x			131
$\beta$ -casein(173-190)	Bos taurus	ACE-inhibitory			x		138
$\beta$ -casein(96-106)	Capra hircus	Antimicrobial	x	x	x	x	149
$\beta$ -casein(209-224)	Bos taurus	ACE-inhibitory		x	x	x	165
$\alpha$ s2-casein(94-103)	Bos taurus	Antimicrobial		x	x		166
$\beta$ -casein(198-205)	Bos taurus	ACE-inhibitory	x	x	x	x	138
$\beta$ -casein(16-40)	Bos taurus	Caseinophosphopeptide		x			167
$\alpha$ s1-casein(37-55)	Bos taurus	induces macedocin biosynthesis		x			168
$\alpha$ s1-casein(16-24)	Bos taurus	ACE-inhibitory		x		x	4
$\alpha$ s1-casein(16-38)	Bos taurus	Antimicrobial		x	x	x	169,170
$\alpha$ s1-casein(16-39)	Bos taurus	Antimicrobial		x		x	142
$\alpha$ s1-casein(195-208)	Bos taurus	Antimicrobial		x	x	x	171
$\beta$ -casein(183-190)	Bos taurus	ACE-inhibitory		x	x		138
$\beta$ -lactoglobulin(39-50)	Capra hircus	Antimicrobial		x			149
$\beta$ -casein(181-190)	Bos taurus	ACE-inhibitory		x	x	x	133
$\beta$ -casein(56-67)	Capra hircus	Antimicrobial	x	x		x	149
$\alpha$ s2-casein(163-176)	Bos taurus	Antimicrobial	x	x		x	166
$\alpha$ s2-casein(213-222)	Bos taurus	Antimicrobial		x		x	153
$\beta$ -lactoglobulin(141-151)	Bos taurus	Antimicrobial, DPP-IV Inhibitory		x		x	145,172,173
<b>Peptide</b>	<b>Species</b>	<b>Function</b>	<b>Casu</b>	<b>Mimolette</b>	<b>Stilton</b>	<b>Taleggio</b>	<b>Ref.</b>

			<b>Marzu</b>				
$\beta$ -casein(95-105)	Bos taurus	ACE-inhibitory	x	x	x	x	174
$\beta$ -casein(93-106)	Bos taurus	Antioxidant	x	x	x	x	175
$\alpha$ s2-casein(197-222)	Bos taurus	Antimicrobial		x			142
$\beta$ -lactoglobulin(61-73)	Capra hircus	Antimicrobial	x				149
$\beta$ -casein(145-155)	Bos taurus	ACE-inhibitory		x	x		131
$\beta$ -casein(113-120)	Bos taurus	Antimicrobial, antioxidant		x		x	124,125
$\beta$ -lactoglobulin(110-116)	Bos taurus	ACE-inhibitory	x				155
$\beta$ -casein(212-221)	Bos taurus	ACE-inhibitory		x		x	176,177
$\alpha$ s1-casein(30-37)	Bos taurus	Antimicrobial		x			171,178,179
$\beta$ -casein(185-191)	Bos taurus	ACE-inhibitory, antimicrobial, antioxidant	x		x	x	124,180,181
$\beta$ -casein(185-198)	Bos taurus	Antimicrobial		x	x	x	124
$\beta$ -lactoglobulin(108-116)	Bos taurus	Antimicrobial, DPP-IV Inhibitory	x	x			114,149,172
$\alpha$ s1-casein(101-107)	Ovis aries	ACE-inhibitory		x		x	182
$\beta$ -casein(193-206)	Bos taurus	Antimicrobial		x	x	x	142
$\beta$ -casein(216-224)	Bos taurus	ACE-inhibitory		x			176,177
$\beta$ -casein(74-82)	Bos taurus	PEP-inhibitory, prolyl endopeptidase-inhibitory		x		x	147
$\beta$ -casein(74-83)	Bos taurus	ACE-inhibitory, antioxidant		x		x	183
$\alpha$ s2-casein(198-222)	Bos taurus	Antimicrobial		x			153,158,184-186
$\beta$ -lactoglobulin(57-76)	Bos taurus	Hypocholesterolemic		x			3
$\kappa$ -casein(46-55)	Bos taurus	C3a Receptors agonist, opioid	x				187-189
$\alpha$ s1-casein(106-115)	Bos taurus	Anxiolytic	x	x	x	x	190
$\beta$ -casein(75-83)	Bos taurus	ACE-inhibitory, DPP-IV Inhibitory		x	x	x	4,137
$\kappa$ -casein(56-62)	Bos taurus	Opioid	x	x	x		148
$\kappa$ -casein(56-63)	Bos taurus	Opioid	x		x		189
$\beta$ -casein(129-136)	Bos taurus	Bradykinin-Potentiating	x	x		x	128
$\beta$ -casein(206-213)	Ovis aries	ACE-inhibitory, antioxidant		x	x	x	191
$\beta$ -casein(208-217)	Bos taurus	ACE-inhibitory	x	x	x	x	165
$\beta$ -casein(206-216)	Ovis aries	ACE-inhibitory	x	x	x	x	192
$\beta$ -casein(206-220)	Capra hircus	Antimicrobial	x	x	x	x	149,170
<b>Peptide</b>	<b>Species</b>	<b>Function</b>	<b>Casu Marzu</b>	<b>Mimolette</b>	<b>Stilton</b>	<b>Taleggio</b>	<b>Ref.</b>

$\beta$ -casein(208-224)	Bos taurus	ACE-inhibitory, Antimicrobial, antithrombin, immunomodulatory		x	x	x	87,138,170,193
$\alpha$ 2-casein(105-111)	Capra hircus	ACE-inhibitory, antioxidant	x	x	x	x	191,194

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