

LFSEQL  
SEQUENCE LISTING

<110> N.V. Nutricia

<120> Formula with a specific beta-lactoglobulin peptide

<130> P6075799PCT1

<150> PCT/NL2018/050282

<151> 2018-04-30

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<212> PRT

<213> Artificial Sequence

<220>

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<220>

<221> misc\_feature

<222> (1)..(1)

<223> Xaa can Ile or Leu

<400> 1

Xaa Ile Val Thr Gln Thr Met Lys Gly Leu Asp Ile Gln Lys Val Ala

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Gly Thr Trp Tyr Ser Leu Ala Met Ala Ala Ser

                    20                      25

<210> 2

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<220>

<221> misc\_feature

<222> (1)..(1)

<223> Xaa can be Ile or Leu

<400> 2

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Xaa Ile Val Thr Gln Thr Met Lys Gly Leu Asp Ile Gln Lys Val Ala  
 1 5 10 15

Gly Thr Trp Tyr Ser Leu Ala Met Ala Ala Ser Asp Ile Ser Leu Leu  
 20 25 30

<210> 3  
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<400> 3

Thr Met Lys Gly Leu Asp Ile Gln Lys Val Ala Gly Thr Trp Tyr Ser  
 1 5 10 15

Leu Ala Met Ala Ala Ser Asp Ile Ser Leu Leu  
 20 25

<210> 4  
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Thr Met Lys Gly Leu Asp Ile Gln Lys Val Ala Gly Thr Trp Tyr Ser  
 1 5 10 15

Leu Ala Met Ala Ala Ser Asp Ile Ser Leu Leu Asp Ala Gln  
 20 25 30

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Asp	Ile	Gln	Lys	Val	Ala	Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala
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Ser	Asp	Ile	Ser	Leu	Leu	Asp	Ala	Gln	Ser	Ala	Pro	Leu	Arg	Val	Tyr
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<211> 22

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Leu	Ile	Val	Thr	Gln	Thr	Met	Lys	Gly	Leu	Asp	Ile	Gln	Lys	Val	Ala
1				5					10					15	

Gly	Thr	Trp	Tyr	Ser	Leu
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<210> 7

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<212> PRT

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<223> beta-lactoglobulin peptide fragment

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Leu	Ile	Val	Thr	Gln	Thr	Met	Lys	Gly	Leu	Asp	Ile	Gln	Lys	Val	Ala
1				5					10					15	

Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala
					20			25

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<212> PRT

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<223> beta-lactoglobulin peptide fragment

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Leu	Ile	Val	Thr	Gln	Thr	Met	Lys	Gly	Leu	Asp	Ile	Gln	Lys	Val	Ala
1				5					10					15	

Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala
			20				25		

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Leu	Ile	Val	Thr	Gln	Thr	Met	Lys	Gly	Leu	Asp	Ile	Gln	Lys	Val	Ala
1				5					10					15	

Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser
			20				25			

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Leu	Ile	Val	Thr	Gln	Thr	Met	Lys	Gly	Leu	Asp	Ile	Gln	Lys	Val	Ala
1				5					10					15	

Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser
			20				25					30	

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<223> beta-lactoglobulin peptide fragment

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Leu	Ile	Val	Thr	Gln	Thr	Met	Lys	Gly	Leu	Asp	Ile	Gln	Lys	Val	Ala
1				5				10						15	

Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu
			20					25					30		

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Leu	Ile	Val	Thr	Gln	Thr	Met	Lys	Gly	Leu	Asp	Ile	Gln	Lys	Val	Ala
1				5				10						15	

Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu
			20					25					30		

Asp	Ala	Gln
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<223> beta-lactoglobulin peptide fragment

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Leu	Ile	Val	Thr	Gln	Thr	Met	Lys	Gly	Leu	Asp	Ile	Gln	Lys	Val	Ala
1				5				10						15	

Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu
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Asp Ala Gln Ser Ala Pro Leu  
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<212> PRT

<213> Artificial Sequence

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<223> beta-lactoglobulin peptide fragment

<400> 14

Leu Ile Val Thr Gln Thr Met Lys Gly Leu Asp Ile Gln Lys Val Ala  
1 5 10 15

Gly Thr Trp Tyr Ser Leu Ala Met Ala Ala Ser Asp Ile Ser Leu Leu  
20 25 30

Asp Ala Gln Ser Ala Pro Leu Arg Val Tyr  
35 40

<210> 15

<211> 31

<212> PRT

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<223> beta-lactoglobulin peptide fragment

<400> 15

Gln Thr Met Lys Gly Leu Asp Ile Gln Lys Val Ala Gly Thr Trp Tyr  
1 5 10 15

Ser Leu Ala Met Ala Ala Ser Asp Ile Ser Leu Leu Asp Ala Gln  
20 25 30

<210> 16

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<223> beta-lactoglobulin peptide fragment

<400> 16

Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu	Asp	Ala	Gln	Ser	Ala	Pro
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Leu

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<212> PRT

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<400> 17

Met	Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu	Asp	Ala	Gln	Ser	Ala	Pro	Leu
1				5				10					15		

Arg

<210> 18

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<212> PRT

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<400> 18

Met	Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu	Asp	Ala	Gln	Ser	Ala	Pro	Leu
1				5				10					15		

<210> 19

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<400> 19

Asp	Ile	Gln	Lys	Val	Ala	Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala
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Ser Asp Ile

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<212> PRT

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<220>

<223> beta-lactoglobulin peptide fragment

<400> 20

Val	Ala	Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser
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<210> 21

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Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser
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<210> 22

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<212> PRT

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<400> 22

Asp	Ile	Gln	Lys	Val	Ala	Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala
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Ser Asp Ile Ser  
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<400> 23

Val Ala Gly Thr Trp Tyr Ser Leu Ala Met Ala Ala Ser Asp Ile  
1 5 10 15

<210> 24  
<211> 15  
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<400> 24

Ala Gly Thr Trp Tyr Ser Leu Ala Met Ala Ala Ser Asp Ile Ser  
1 5 10 15

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<400> 25

Gly Thr Trp Tyr Ser Leu Ala Met Ala Ala Ser Asp Ile  
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<223> beta-lactoglobulin peptide fragment

<400> 26

Lys	Val	Ala	Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp
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<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> beta-lactoglobulin peptide fragment

<400> 27

Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu	Asp	Ala	Gln	Ser	Ala	Pro	Leu
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<210> 28

<211> 15

<212> PRT

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<400> 28

Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser	Leu
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<210> 29

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> beta-lactoglobulin peptide fragment

<400> 29

Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu
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<210> 30

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<211> 15  
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<400> 30

Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu	Asp
1				5					10					15

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<400> 31

Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu	Asp	Ala
1				5					10					15

<210> 32  
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<220>  
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<400> 32

Ser	Asp	Ile	Ser	Leu	Leu	Asp	Ala	Gln	Ser	Ala	Pro	Leu	Arg	Val
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<210> 33  
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<220>  
 <223> Pepmix peptide 1

<400> 33

Gln	Lys	Val	Ala	Gly	Thr	Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp
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		LFSEQL	
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Ile Ser

<210> 34  
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<220>  
 <223> Pepmix peptide 2

<400> 34

Trp	Tyr	Ser	Leu	Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu	Asp	Ala
1			5					10						15	

Gln Ser

<210> 35  
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<220>  
 <223> Pepmix peptide 3

<400> 35

Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu	Asp	Ala	Gln	Ser	Ala	Pro	Leu	Arg
1			5					10						15	

Val Tyr

<210> 36  
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<220>  
 <223> Pepmix peptide 4

<400> 36

# LFSEQL

Leu Leu Asp Ala Gln Ser Ala Pro Leu Arg Val Tyr Val Glu Glu Leu  
1 5 10 15

Lys Pro

<210> 37  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> beta-lactoglobulin peptide fragment

<400> 37

Ile Ile Val Thr Gln Thr Met Lys Gly Leu Asp Ile Gln Lys Val Ala  
1 5 10 15

Gly Thr Trp Tyr Ser Leu Ala Met Ala Ala Ser  
20 25

<210> 38  
<211> 32  
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<220>  
<223> beta-lactoglobulin peptide fragment

<400> 38

Ile Ile Val Thr Gln Thr Met Lys Gly Leu Asp Ile Gln Lys Val Ala  
1 5 10 15

Gly Thr Trp Tyr Ser Leu Ala Met Ala Ala Ser Asp Ile Ser Leu Leu  
20 25 30

<210> 39  
<211> 18  
<212> PRT  
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<220>  
<223> beta-lactoglobulin peptide fragment

LFSEQL

<400> 39

Ala	Met	Ala	Ala	Ser	Asp	Ile	Ser	Leu	Leu	Asp	Ala	Gln	Ser	Ala	Pro
1				5					10					15	

Leu Arg