

Supplementary Table 1. Physico-chemical properties of identified peptides identified in this study and their leading razor protein.

Identifying number	Sequence	Length (n° amino acids)	Net Charge	Hydrophobicity index	Boman Index (kcal/mol)	Mass (Da)	Leading razor protein
1	DLDIFVNSV	9	-2.00	0.91	0.73	1020.5	Allergen Len c 1.0101
2	EDEDEDEE	9	-8.99	-3.50	7.45	1137.3	Legumin (Minor small)
3	EEDEEEKEQ	9	-5.99	-3.54	6.74	1163.4	Convicilin
4	EQSPGQWRP	9	0.00	-2.26	3.66	1083.5	Convicilin
5	EVDRLLTNQ	9	-1.00	-0.82	3.48	1086.6	Allergen Len c 1.0101
6	FLPQYTDAD	9	-2.00	-0.63	1.78	1068.5	Allergen Len c 1.0102
7	FNLEEGDIM	9	-3.00	-0.16	1.43	1066.5	p54 protein
8	GINAENNER	9	-1.00	-1.79	4.53	1015.5	Convicilin
9	GINAENNQR	9	0.00	-1.79	4.39	1014.5	Beta-lathyrin 1
10	GVNAENNQR	9	0.00	-1.82	4.49	1000.5	Cvc protein
11	GVSSESEPF	9	-2.00	-0.49	1.76	937.4	Vicilin 47k
12	HLPSFSPSP	9	0.09	-0.42	0.77	967.5	Legumin B
13	KEDEDEDEE	9	-6.99	-3.54	7.31	1136.4	Legumin (Minor small)
14	KSLPSEFEP	9	-1.00	-1.01	2.01	1032.5	Convicilin
15	LEEQENEPH	9	-3.90	-2.44	4.35	1123.5	Convicilin
16	LFENLQNYR	9	0.00	-1.04	3.10	1195.6	Convicilin
17	LIETWNPNN	9	-1.00	-0.99	1.90	1099.5	N-terminal incomplete legumin A1 pre-pro-polypeptide
18	LPQFTDADF	9	-2.00	-0.18	1.43	1052.5	Allergen Len c 1.0101
19	LPSFSPSPQ	9	0.00	-0.46	0.87	958.5	Legumin B
20	LTFPGSAQE	9	-1.00	-0.23	0.85	948.5	Convicilin
21	NEGGLLLPH	9	-0.91	-0.13	0.16	948.5	Convicilin
22	NTDYEEIEK	9	-3.00	-2.10	4.35	1139.5	Allergen Len c 1.0102
23	PHMPSSSSN	9	0.09	-1.24	2.51	942.4	p54 protein

24	PSFSPSPQL	9	0.00	-0.46	0.87	958.5	Legumin B
25	SDLFENLQN	9	-2.00	-0.88	2.77	1078.5	Convicilin
26	SDQENPFIF	9	-2.00	-0.70	2.25	1095.5	Allergen Len c 1.0101
27	SKIFENLQN	9	0.00	-0.84	2.42	1091.6	Allergen Len c 1.0101
28	SLPSEFEPF	9	-2.00	-0.27	1.06	1051.5	Convicilin
29	SVSSESEPF	9	-2.00	-0.53	2.24	967.4	Allergen Len c 1.0101
30	TEYEEIEKV	9	-3.00	-1.24	2.95	1138.5	Allergen Len c 1.0101
31	VFEDNDFET	9	-4.00	-0.93	3.36	1114.4	p54 protein
32	VNGVAPGPI	9	0.00	0.80	-1.12	822.5	UPI0001AFF95
33	VNPDDEEDL	9	-5.00	-1.62	4.16	1044.4	Convicilin
34	AFNTDYEEIE	10	-4.00	-1.04	2.88	1229.5	Allergen Len c 1.0102
35	AFNTEYEEIE	10	-4.00	-1.04	2.69	1243.5	Allergen Len c 1.0101
36	ASSNLDLLGF	10	-1.00	0.70	0.17	1035.5	Vicilin
37	DDEEEQEEET	10	-7.99	-3.22	6.64	1251.4	Allergen Len c 1.0102
38	DEEEGQEEET	10	-6.99	-2.91	5.68	1193.4	Allergen Len c 1.0101
39	EITPEKNPQL	10	-1.00	-1.35	2.41	1167.6	Allergen Len c 1.0101
40	EQIEELSKNA	10	-2.00	-1.21	2.99	1159.6	Allergen Len c 1.0101
41	EQSPGQWRPS	10	0.00	-2.11	3.63	1170.5	Convicilin
42	ETWNPNHPEL	10	-1.91	-1.82	2.69	1235.6	Legumin B
43	EVDRLLTNQK	10	0.00	-1.13	3.69	1214.7	Allergen Len c 1.0101
44	FEITPEKNPQ	10	-1.00	-1.45	2.60	1201.6	Allergen Len c 1.0101
45	FLPQFTDADF	10	-2.00	0.12	0.99	1199.5	Allergen Len c 1.0101
46	FLPQQTDAF	10	-2.00	-0.51	1.84	1180.5	Vicilin
47	FNTDYEEIEK	10	-3.00	-1.61	3.62	1286.6	Allergen Len c 1.0102
48	GFGVNAENNQ	10	-1.00	-0.95	2.16	1048.5	Cvc protein
49	HLPSFSPSPQ	10	0.09	-0.73	1.25	1095.5	Legumin B
50	IESEGGLIET	10	-3.00	0.00	0.98	1046.5	N-terminal incomplete legumin A1 pre-pro-peptide
51	IKEGSLLLPN	10	0.00	0.22	0.18	1082.6	Allergen Len c 1.0101

52	INEGGLLLPH	10	-0.91	0.33	-0.35	1061.6	Convicilin
53	KEDEDEDEEE	10	-7.99	-3.54	7.26	1265.4	Legumin (Minor small)
54	KGVSSESEPF	10	-1.00	-0.83	2.14	1065.5	Vicilin 47k
55	KSLPSEFEPF	10	-1.00	-0.63	1.51	1179.6	Convicilin
56	LHLPSFSPSP	10	0.09	0.00	0.20	1080.6	Legumin B
57	LLSGTQNQPS	10	0.00	-0.72	1.63	1043.5	Allergen Len c 1.0101
58	LSPGDVFPVIP	10	-1.00	1.16	-0.97	1042.6	Beta-lathyrin 1
59	LTETWNPNHPP	10	-0.91	-1.54	2.26	1207.6	Legumin B
60	LVNPDDEEDL	10	-5.00	-1.08	3.25	1157.5	Convicilin
61	NFLAGEEDNV	10	-3.00	-0.53	2.09	1106.5	Allergen Len c 1.0101
62	NTDYEEIEKV	10	-3.00	-1.47	3.51	1238.6	Allergen Len c 1.0102
63	NTEYEEIEKV	10	-3.00	-1.47	3.32	1252.6	Allergen Len c 1.0101
64	SDLFENLQNY	10	-2.00	-0.92	2.51	1241.6	Convicilin
65	SDQENPFIFK	10	-1.00	-1.02	2.58	1223.6	Allergen Len c 1.0101
66	SKIFENLQNY	10	0.00	-0.89	2.19	1254.6	Allergen Len c 1.0101
67	TETWNPNHPE	10	-1.91	-2.27	3.44	1223.5	Legumin B
68	VFEDNDFETK	10	-3.00	-1.23	3.58	1242.5	p54 protein
69	YLVNPDDEED	10	-5.00	-1.59	3.76	1207.5	Convicilin
70	YQHEGKEEET	10	-2.91	-2.70	4.48	1248.5	Convicilin
71	AFNTDYEEIEK	11	-3.00	-1.30	3.12	1357.6	Allergen Len c 1.0102
72	AFNTEYEEIEK	11	-3.00	-1.30	2.95	1371.6	Allergen Len c 1.0101
73	DLDIFVNSVEI	11	-3.00	0.84	0.77	1262.6	Allergen Len c 1.0101
74	DLNFTPNEFDS	11	-3.00	-1.02	2.97	1297.5	Lipoxygenase, EC 1.13.11.-
75	EEDEDEDEKEE	11	-8.99	-3.54	7.22	1394.5	Legumin A2 primary translation product
76	EEEEGEWRGSQ	11	-3.99	-2.55	4.88	1334.5	Convicilin
77	EEETSSSESQR	11	-3.99	-2.60	6.12	1309.5	Convicilin
78	EIKEGSLLLLPH	11	-0.91	-0.09	0.60	1234.7	Vicilin
79	EIKEGSLLLLPN	11	-1.00	-0.12	0.78	1211.7	Allergen Len c 1.0101
80	EINEGGLLLPH	11	-1.91	-0.02	0.31	1190.6	Convicilin

81	EQIEELSKNAK	11	-1.00	-1.45	3.22	1287.7	Allergen Len c 1.0101
82	FEITPEKNPQL	11	-1.00	-0.97	1.92	1314.7	Allergen Len c 1.0101
83	FLPQFTDADFI	11	-2.00	0.52	0.45	1312.6	Allergen Len c 1.0101
84	FLPQQTDADFI	11	-2.00	-0.05	1.23	1293.6	Vicilin
85	FLPQYTDADFI	11	-2.00	0.15	0.73	1328.6	Allergen Len c 1.0102
86	FNTEYEEIEKV	11	-3.00	-1.08	2.75	1399.7	Allergen Len c 1.0101
87	GDTIKLPAGTI	11	0.00	0.31	0.09	1084.6	Allergen Len c 1.0101
88	GFGINAENNER	11	-1.00	-1.25	3.35	1219.6	Convicilin
89	GFGINAENNQR	11	0.00	-1.25	3.24	1218.6	Beta-lathyrin 1
90	GLHLPSFSPSP	11	0.09	-0.04	0.10	1137.6	Legumin B
91	GLTETWNPNHPI	11	-0.91	-1.44	1.97	1264.6	Legumin B
92	KEDEDEDEEEE	11	-8.99	-3.54	7.22	1394.5	Legumin (Minor small)
93	LLEDQEQEPQH	11	-3.91	-1.97	3.69	1364.6	Allergen Len c 1.0102
94	LNIGSSSSPDI	11	-1.00	0.05	1.21	1088.5	N-terminal incomplete legumin A1 pre-pro-polypeptide
95	LSPGDVLVIPA	11	-1.00	1.31	-1.22	1079.6	Allergen Len c 1.0101
96	LSPGDVVIIPA	11	-1.00	1.37	-1.22	1079.6	Convicilin
97	LTETWNPNHPE	11	-1.91	-1.72	2.68	1336.6	Legumin B
98	NASSDLNLIGF	11	-1.00	0.38	0.76	1149.6	Allergen Len c 1.0101
99	NFLAGEEDNVI	11	-3.00	-0.07	1.46	1219.6	Allergen Len c 1.0101
100	NILEAAFNTEY	11	-2.00	-0.12	1.20	1283.6	Allergen Len c 1.0101
101	QEEETSTQVQR	11	-2.00	-2.14	5.13	1333.6	Allergen Len c 1.0102
102	QEEKEEEEEEEK	11	-5.99	-3.57	6.47	1434.6	Legumin B
103	SACCDTCLCTR	11	-0.25	0.49	1.85	1174.4	Bowman-Birk inhibitor
104	SDQDNPFIFES	11	-3.00	-0.96	2.94	1297.5	Vicilin type C
105	SFNTGYEEIEK	11	-2.00	-1.25	2.72	1315.6	Vicilin
106	SVSSESEPFNL	11	-2.00	-0.41	1.99	1194.5	Allergen Len c 1.0101
107	TLFENENGHIR	11	-0.91	-1.06	3.21	1328.6	Convicilin
108	VLLLEEQENEPH	11	-3.90	-1.27	2.75	1335.6	Convicilin

109	YLVNPDDEEDL	11	-5.00	-1.10	2.97	1320.6	Convicilin
110	AFNTDYEEIEKV	12	-3.00	-0.84	2.53	1456.7	Allergen Len c 1.0102
111	AFNTEYEEIEKV	12	-3.00	-0.84	2.37	1470.7	Allergen Len c 1.0101
112	DDEEEQEEETST	12	-7.99	-2.81	6.03	1439.5	Allergen Len c 1.0102
113	DLDIFVNSVEIK	12	-2.00	0.44	1.17	1390.7	Allergen Len c 1.0101
114	EITPEKNPQLQD	12	-2.00	-1.71	3.20	1410.7	Allergen Len c 1.0101
115	FFEITPEKNPQL	12	-1.00	-0.66	1.51	1461.8	Allergen Len c 1.0101
116	FLTLFENENGHI	12	-1.91	-0.05	1.04	1432.7	Convicilin
117	FNTEYEEIEKVL	12	-3.00	-0.68	2.11	1512.7	Allergen Len c 1.0101
118	FQTLYENENGHI	12	-1.91	-1.00	2.17	1463.7	Vicilin 47k
119	GDTIKLPAGTIA	12	0.00	0.43	-0.07	1155.6	Allergen Len c 1.0101
120	GFGINAENNERN	12	-1.00	-1.43	3.63	1333.6	Convicilin
121	GLHLPSFSPSPQ	12	0.09	-0.33	0.55	1265.6	Legumin B
122	IAGDSIGEEVEK	12	-3.00	-0.38	1.71	1245.6	Phosphoglycerate kinase, EC 2.7.2.3
123	ISLTDTGSSNNQ	12	-1.00	-0.83	2.68	1235.6	N-terminal incomplete legumin A1 pre-pro-polypeptide
124	KEDEDEDEEEEE	12	-9.99	-3.53	7.18	1523.5	Legumin (Minor small)
125	KEEAWTLFEKHS	12	-0.91	-1.29	2.51	1503.7	TIR-similar-domain-containing protein TSDC
126	LAGEEDNVISQI	12	-3.00	0.01	1.36	1286.6	Allergen Len c 1.0101
127	LLSGTQNQPSFL	12	0.00	-0.05	0.70	1303.7	Allergen Len c 1.0101
128	LTETWNPNHPEL	12	-1.91	-1.26	2.04	1449.7	Legumin B
129	NEGKGDFELVGQ	12	-2.00	-0.98	2.11	1291.6	Allergen Len c 1.0101
130	NGLHLPSFSPSP	12	0.09	-0.33	0.65	1251.6	Legumin B
131	QTLYENENGHIR	12	-0.91	-1.61	3.66	1472.7	Vicilin 47k
132	RQQSQEENVIVK	12	0.00	-1.44	3.98	1456.8	Vicilin 47k
133	SDQDNPFIFESK	12	-2.00	-1.21	3.16	1425.6	Vicilin type C
134	SFNTGYEEIEKV	12	-2.00	-0.80	2.15	1414.7	Vicilin
135	SVSSESEPFNLR	12	-1.00	-0.75	3.07	1350.6	Allergen Len c 1.0101

136	TIFLPQFTDADF	12	-2.00	0.42	0.63	1413.7	Allergen Len c 1.0101
137	VLLEEQENEPHQ	12	-3.90	-1.46	2.98	1463.7	Convicilin
138	WMYNDQDTPVIA	12	-2.00	-0.51	1.41	1451.6	Legumin A
139	AFNTDYEEIEKVL	13	-3.00	-0.48	1.95	1569.8	Allergen Len c 1.0102
140	AFNTEYEEIEKVL	13	-3.00	-0.48	1.81	1583.8	Allergen Len c 1.0101
141	AGLTETWNPNHPE	13	-1.91	-1.35	2.05	1464.7	Legumin B
142	AILTVLNSNDRNS	13	0.00	-0.21	2.49	1415.7	Allergen Len c 1.0101
143	AIVIVTVNEGKGY	13	0.00	0.75	-0.30	1361.8	Allergen Len c 1.0102
144	AKLSPGDVVFIPA	13	0.00	0.87	-0.60	1312.7	Beta-lathyrin 1
145	ALEPDHRVESEAG	13	-2.91	-0.99	2.97	1408.7	Legumin B
146	AVLTVLNSNDRNS	13	0.00	-0.23	2.55	1401.7	Allergen Len c 1.0102
147	DDEEEQEEETSTQ	13	-7.99	-2.86	5.99	1567.6	Allergen Len c 1.0102
148	DLAIPVNRPGQLQ	13	0.00	-0.31	1.52	1419.8	Allergen Len c 1.0101
149	EAAFNTDYEEIEK	13	-4.00	-1.23	3.03	1557.7	Allergen Len c 1.0102
150	EAAFNTEYEEIEK	13	-3.99	-1.23	2.88	1571.7	Allergen Len c 1.0101
151	EASFNTGYEEIEK	13	-3.00	-1.19	2.68	1515.7	Vicilin
152	EEESEEQNEGNSV	13	-5.99	-2.25	4.73	1478.6	Legumin (Minor small)
153	EIKEGSLLLPNYN	13	-1.00	-0.47	1.18	1488.8	Allergen Len c 1.0101
154	EITPEKNPQLQDL	13	-2.00	-1.28	2.57	1523.8	Allergen Len c 1.0101
155	ELAFPGSAQEVDL	13	-2.00	-0.53	2.28	1417.7	Vicilin
156	ELAFPGSSHEVDL	13	-1.91	-0.71	2.62	1442.7	Vicilin 47k
157	EVDRLLTNQKQSH	13	0.09	-1.45	3.88	1566.8	Allergen Len c 1.0101
158	FEITPEKNPQLQD	13	-2.00	-1.36	2.72	1557.8	Allergen Len c 1.0101
159	FFEITPEKNPQLQ	13	-1.00	-0.88	1.82	1589.8	Allergen Len c 1.0101
160	FLPQQTDADFILV	13	-2.00	0.57	0.35	1505.8	Vicilin
161	FLTLFENENGHIR	13	-0.91	-0.39	2.11	1588.8	Convicilin
162	FNTEYEEIEKVLL	13	-3.00	-0.33	1.57	1625.8	Allergen Len c 1.0101
163	FQTLYENENGHIR	13	-0.91	-1.27	3.15	1619.8	Vicilin 47k
164	GDTIKLPAGTIAY	13	0.00	0.30	-0.05	1318.7	Allergen Len c 1.0101

165	GFGINAENNERNF	13	-1.00	-1.11	3.12	1480.7	Convicilin
166	GLTETWNPNHPEL	13	-1.91	-1.19	1.81	1506.7	Legumin B
167	KEDEDEDEEEEE	13	-10.98	-3.53	7.15	1652.6	Legumin (Minor small)
168	KGVSSESEPFNLR	13	0.00	-0.96	2.93	1448.7	Vicilin 47k
169	LVNPDDEEDLRVV	13	-4.00	-0.53	3.03	1511.7	Convicilin
170	NFLAGEEDNVISQ	13	-3.00	-0.39	1.92	1434.7	Allergen Len c 1.0101
171	NFLTGSDDNVISQ	13	-2.00	-0.38	2.14	1408.6	Convicilin
172	NGLHLPSFSPSPQ	13	0.09	-0.57	1.02	1379.7	Legumin B
173	SKIFENLQNYRLL	13	1.00	-0.45	2.08	1636.9	Allergen Len c 1.0101
174	SRNPIYSNKFGKF	13	3.00	-1.08	2.65	1556.8	Allergen Len c 1.0101
175	SRSDQDNPFIFES	13	-2.00	-1.22	3.90	1540.7	Vicilin type C
176	SVEIKEGSLLLPN	13	-1.00	0.16	0.61	1397.8	Allergen Len c 1.0101
177	SVEINEGGLLLPH	13	-1.91	0.25	0.21	1376.7	Convicilin
178	TDTGSSNNQLDQM	13	-2.00	-1.44	3.50	1409.6	N-terminal incomplete legumin A1 pre-pro-polypeptide
179	TIFLPQQTADDFI	13	-2.00	0.25	0.86	1507.8	Vicilin
180	TLFLPQYTDADFI	13	-2.00	0.36	0.44	1542.8	Allergen Len c 1.0102
181	VNGVAPGPIWTPPL	13	0.00	0.60	-1.13	1319.7	UPI0001AFFF95
182	VSREQIEELSKNA	13	-1.00	-1.02	3.40	1501.8	Allergen Len c 1.0101
183	YLGGNPETEFPET	13	-3.00	-1.08	1.74	1452.6	Legumin J
184	DTHKFCYKACHNSE	14	0.06	-1.28	2.95	1681.7	Bowman-Birk inhibitor
185	ESCHSACDKVCAY	14	-1.16	0.06	1.42	1517.5	Bowman-Birk inhibitor
186	AFNTDYEEIEKVLL	14	-3.00	-0.18	1.46	1682.8	Allergen Len c 1.0102
187	AFNTEYEEIEKVLL	14	-3.00	-0.18	1.33	1696.9	Allergen Len c 1.0101
188	AGEEDNVISQIQRP	14	-2.00	-0.95	2.98	1554.8	Allergen Len c 1.0101
189	AGLTETWNPNHPEL	14	-1.91	-0.98	1.56	1577.7	Legumin B
190	AILTVLKPDDRNSF	14	0.00	-0.08	1.92	1587.9	Vicilin
191	AILTVLNSNDRNSF	14	0.00	0.01	2.10	1562.8	Allergen Len c 1.0101
192	AILTVLSPNDRNSY	14	0.00	-0.15	1.84	1561.8	Convicilin

193	ALEPDHRVESEAGL	14	-2.91	-0.65	2.41	1521.7	Legumin B
194	AVLTVLNSNDRNSF	14	0.00	-0.01	2.16	1548.8	Allergen Len c 1.0102
195	DDEEEQEEETSTQV	14	-7.99	-2.36	5.28	1666.6	Allergen Len c 1.0102
196	DEEEGQEEETTKQV	14	-5.99	-2.36	4.74	1649.7	Allergen Len c 1.0101
197	DLAIPVNNPGQLES	14	-2.00	-0.27	1.16	1465.7	Allergen Len c 1.0102
198	DTSNIANQLDSTPR	14	-1.00	-1.18	3.68	1530.7	Storage protein
199	EAAFNTDYEEIEKV	14	-4.00	-0.84	2.52	1656.8	Allergen Len c 1.0102
200	EAAFNTEYEEIEKV	14	-3.99	-0.84	2.39	1670.8	Allergen Len c 1.0101
201	EASFNTGYEEIEKV	14	-3.00	-0.81	2.20	1614.7	Vicilin
202	EEEGQEEETTKQVQ	14	-4.99	-2.36	4.51	1662.7	Allergen Len c 1.0101
203	EIKEGSLLLPHYNS	14	-0.91	-0.47	1.20	1598.8	Vicilin
204	EIKEGSLLLPNYNS	14	-1.00	-0.49	1.34	1575.8	Allergen Len c 1.0101
205	EINEGGLLLPHYNS	14	-1.91	-0.41	0.97	1554.8	Convicilin
206	EITPEKNPQLQDL	14	-3.00	-1.44	3.01	1638.8	Allergen Len c 1.0101
207	ELAFPGSAQEVDRL	14	-2.00	-0.22	1.77	1530.8	Vicilin
208	ELAFPGSSHEVDRL	14	-1.91	-0.39	2.08	1555.8	Vicilin 47k
209	FDKRSDFENLQNY	14	-1.00	-1.31	3.66	1787.8	Convicilin
210	FEITPEKNPQLQDL	14	-2.00	-0.99	2.17	1670.9	Allergen Len c 1.0101
211	FELVGQRNENQQEQ	14	-2.00	-1.83	4.14	1717.8	Allergen Len c 1.0101
212	FFEITPEKNPQLQD	14	-2.00	-1.06	2.31	1704.8	Allergen Len c 1.0101
213	FNRAEDLATAMEAR	14	-1.00	-0.57	3.14	1593.8	UPI0000010B06
214	GDTIKLPAGTIAYL	14	0.00	0.55	-0.40	1431.8	Allergen Len c 1.0101
215	GDTIKLPAGTIGYL	14	0.00	0.39	-0.34	1417.8	Vicilin
216	GFGINAENNERNFL	14	-1.00	-0.76	2.54	1593.8	Convicilin
217	GNLELVGFKNEQQE	14	-2.00	-1.04	2.26	1603.8	Convicilin
218	GTKPEYGSTNTGSG	14	0.00	-1.36	2.14	1354.6	Dehydrin a
219	IAPVDTKPQTGGGY	14	0.00	-0.54	0.82	1402.7	Lectin
220	KEDEEKVVEEEEGE	14	-6.99	-2.24	4.66	1676.7	Convicilin
221	LVNEGKGNLELVGF	14	-1.00	0.25	0.27	1487.8	Convicilin

222	NFLAGEEDNVISQI	14	-3.00	-0.04	1.43	1547.7	Allergen Len c 1.0101
223	NLLGFGINAENNER	14	-1.00	-0.69	2.41	1559.8	Convicilin
224	SFLLSGTQNPQPSFL	14	0.00	0.10	0.63	1537.8	Allergen Len c 1.0101
225	SLNTKYDTIEKVLL	14	0.00	-0.12	1.30	1635.9	Convicilin
226	SRQEEDEDEDEKEE	14	-7.99	-3.41	7.37	1765.7	Legumin A2 primary translation product
227	SRSQDQNPFFIFESK	14	-1.00	-1.41	4.02	1668.8	Vicilin type C
228	SVEINEGGLLLPHY	14	-1.91	0.14	0.20	1539.8	Convicilin
229	TVNEGKGFELVGQ	14	-2.00	-0.59	1.70	1491.7	Allergen Len c 1.0101
230	VLDLAIPVNRPGQL	14	0.00	0.54	0.38	1503.9	Allergen Len c 1.0101
231	YLVNPDDEEDLRVV	14	-4.00	-0.59	2.82	1674.8	Convicilin
232	ALGDTTNGCISTGPH	15	-0.97	-0.22	1.03	1442.6	Superoxide dismutase, EC 1.15.1.1
233	DDVKSACCDTCLCTR	15	-1.25	-0.09	2.62	1631.6	Bowman-Birk inhibitor
234	GDDVKSACCDTCLCT	15	-2.25	0.19	1.56	1532.6	Bowman-Birk inhibitor
235	AGEEDNVISQIQRPV	15	-2.00	-0.61	2.51	1653.8	Allergen Len c 1.0101
236	ASSNLNLLGFGINAK	15	1.00	0.37	0.27	1517.8	Convicilin
237	DALEPDNRIESEGGL	15	-4.00	-0.99	2.96	1613.8	N-terminal incomplete legumin A1 pre-pro-polypeptide
238	DEEEGQEEETTKQVQ	15	-5.99	-2.43	4.79	1777.7	Allergen Len c 1.0101
239	DEEEQEEETSTQVQR	15	-5.99	-2.50	5.71	1835.8	Allergen Len c 1.0102
240	DLAIPVNNPGQLESF	15	-2.00	-0.07	0.88	1612.8	Allergen Len c 1.0102
241	DLAIPVNRPGQLQSF	15	0.00	-0.13	1.35	1653.9	Allergen Len c 1.0101
242	LCESNADCTNKGSGK	15	-0.12	-0.95	2.54	1525.7	Insecticidal lentil peptide
243	EAAFNTDYEEIEKVL	15	-4.00	-0.53	2.03	1769.8	Allergen Len c 1.0102
244	EAAFNTEYEEIEKVL	15	-3.99	-0.53	1.90	1783.9	Allergen Len c 1.0101
245	EASFNTGYEEIEKVL	15	-3.00	-0.50	1.73	1727.8	Vicilin
246	EASLNTKYDTIEKVL	15	-1.00	-0.48	1.88	1722.9	Convicilin
247	EEEGQEEETTKQVQR	15	-3.99	-2.50	5.21	1818.8	Allergen Len c 1.0101
248	EITPEKNPQLQDLDI	15	-3.00	-1.05	2.48	1751.9	Allergen Len c 1.0101
249	FFEITPEKNPQLQDL	15	-2.00	-0.74	1.83	1817.9	Allergen Len c 1.0101

250	HAIVKVSREQIEELR	15	0.09	-0.53	2.98	1806	Convicilin
251	IESEGGLIETWNPNN	15	-3.00	-0.87	1.82	1671.8	N-terminal incomplete legumin A1 pre-pro-polypeptide
252	KEDEEKVVEEEGEW	15	-6.99	-2.15	4.20	1862.8	Convicilin
253	LAGEEDNVISQIQRP	15	-2.00	-0.63	2.46	1667.8	Allergen Len c 1.0101
254	LSPGDV FVIPAGHPV	15	-0.91	0.83	-0.79	1503.8	Beta-lathyrin 1
255	LSPGDV FVVPAGHPV	15	-0.91	0.81	-0.73	1489.8	Allergen Len c 1.0102
256	LSPGDV LVIPAGHPV	15	-0.91	0.89	-0.92	1469.8	Allergen Len c 1.0101
257	LSPGDV VVIPAGHPV	15	-0.91	0.94	-0.92	1469.8	Convicilin
258	LVNPDDEEDLRVVDF	15	-5.00	-0.51	3.01	1773.8	Convicilin
259	NLERGDTIKLPAGTI	15	0.00	-0.29	1.63	1596.9	Allergen Len c 1.0101
260	RPSHGKEEDEEEKEQ	15	-3.90	-3.09	5.88	1825.8	Convicilin
261	SNRFQTLYENENGHI	15	-0.91	-1.39	3.40	1820.8	Vicilin 47k
262	SRSDDNPFIFESKR	15	0.00	-1.62	4.74	1824.9	Vicilin type C
263	SVEINEGGLLLPHYN	15	-1.91	-0.11	0.63	1653.8	Convicilin
264	TGGTVITDDLGLELK	15	-2.00	0.16	0.73	1530.8	UPI00000109F0
265	TGSDDNVISQIENPV	15	-3.00	-0.53	2.24	1586.7	Convicilin
266	TIFLPQQTADAFILV	15	-2.00	0.75	0.14	1719.9	Vicilin
267	TLFLPQYTDADFILV	15	-2.00	0.85	-0.22	1754.9	Allergen Len c 1.0102
268	VNSVEIKEGSLLLPN	15	-1.00	0.19	0.70	1610.9	Allergen Len c 1.0101
269	VSSVEINEGGLLLPH	15	-1.91	0.44	0.14	1562.8	Convicilin
270	GDDVKSACCDTCLCTR	16	-1.25	-0.11	2.40	1688.7	Bowman-Birk inhibitor
271	AFPGSAQEVDRLLENQ	16	-2.00	-0.63	2.31	1772.9	Vicilin
272	AGEEDNVISQIQRPVK	16	-1.00	-0.81	2.70	1781.9	Allergen Len c 1.0101
273	DEEEGQEEETTKQVQR	16	-4.99	-2.56	5.43	1933.9	Allergen Len c 1.0101
274	DLAIPVNNPGQLESFL	16	-2.00	0.18	0.52	1725.9	Allergen Len c 1.0102
275	DTIEKVLLEEENEPH	16	-4.90	-1.32	3.06	1921.9	Convicilin
276	EAAFNTDYEEIEKVLL	16	-4.00	-0.26	1.59	1882.9	Allergen Len c 1.0102
277	EAAFNTEYEEIEKVLL	16	-3.99	-0.26	1.47	1896.9	Allergen Len c 1.0101

278	EASLNTKYDTIEKVLL	16	-1.00	-0.21	1.45	1836	Convicilin
279	EITPEKNPQLQDLDF	16	-3.00	-0.81	2.14	1899	Allergen Len c 1.0101
280	FEITPEKNPQLQDLDF	16	-3.00	-0.81	2.14	1899	Allergen Len c 1.0101
281	FFEITPEKNPQLQDLDF	16	-3.00	-0.91	2.26	1932.9	Allergen Len c 1.0101
282	FFEVTPEKKYPQLQDL	16	-1.00	-0.82	1.71	1981	Convicilin
283	IESEGGLIETWNPNNR	16	-2.00	-1.09	2.64	1827.9	N-terminal incomplete legumin A1 pre-pro-polypeptide
284	LAGEEDNVISQIQRPV	16	-2.00	-0.33	2.05	1766.9	Allergen Len c 1.0101
285	LSGTQNPQSFSLGFSK	16	1.00	-0.47	1.36	1696.8	Allergen Len c 1.0101
286	LSPGDVFPAGHPVA	16	-0.91	0.89	-0.85	1574.8	Beta-lathyrin 1
287	LSPGDVFPVFPAGHPVA	16	-0.91	0.87	-0.80	1560.8	Allergen Len c 1.0102
288	LSPGDVLPAGHPVA	16	-0.91	0.95	-0.98	1540.9	Allergen Len c 1.0101
289	LSPGDVFPAGHPVS	16	-0.91	0.83	-0.65	1556.9	Convicilin
290	LTDTGSSNNQLDQMPR	16	-1.00	-1.31	3.47	1775.8	N-terminal incomplete legumin A1 pre-pro-polypeptide
291	NASSDLNLIGFGINAK	16	0.00	0.17	0.80	1632.8	Allergen Len c 1.0101
292	NILEAAFNTYEYEEIEK	16	-3.99	-0.70	2.14	1911.9	Allergen Len c 1.0101
293	NLERGDTIKLPAGTIA	16	0.00	-0.16	1.41	1667.9	Allergen Len c 1.0101
294	SILEAAFNTDYEEIEK	16	-4.00	-0.53	2.06	1870.9	Allergen Len c 1.0102
295	SKIFENLQNYRLLLEYK	16	1.00	-0.91	2.47	2057.1	Allergen Len c 1.0101
296	SKPHTIFLPQFTDADF	16	-0.91	-0.28	1.32	1862.9	Allergen Len c 1.0101
297	SLTDTGSSNNQLDQMP	16	-2.00	-1.08	2.75	1706.7	N-terminal incomplete legumin A1 pre-pro-polypeptide
298	SNKFLTLFENENGHIR	16	0.09	-0.83	2.69	1918	Convicilin
299	SNRFQTLYENENGHIR	16	0.09	-1.58	4.12	1976.9	Vicilin 47k
300	SPGDVLPAGHPVAI	16	-0.91	0.99	-0.98	1540.9	Allergen Len c 1.0101
301	SVEIKEGSLLLPNYNS	16	-1.00	-0.22	1.13	1761.9	Allergen Len c 1.0101
302	SVEINEGGLLLPHYNS	16	-1.91	-0.15	0.81	1740.9	Convicilin
303	SVLEASLNTKYDTIEK	16	-1.00	-0.50	1.97	1809.9	Convicilin

304	TGSDDNVISQIENPVK	16	-2.00	-0.74	2.45	1714.8	Convicilin
305	AAVDTLPPVVNESEEPT	17	-4.00	-0.26	1.39	1766.9	Histone H1
306	AFPGSAQEVDRLLENQK	17	-1.00	-0.82	2.50	1901	Vicilin
307	AKLSPGDVFPAGHPV	17	0.09	0.61	-0.48	1702.9	Beta-lathyrin 1
308	DDEEEQEEETSTQVQRY	17	-6.99	-2.49	5.56	2113.9	Allergen Len c 1.0102
309	DEEEGQEEETTKVQRY	17	-4.99	-2.49	5.12	2096.9	Allergen Len c 1.0101
310	DLSAPDLDNSGGGSIK	17	-2.00	-0.56	1.66	1601.8	FAX3
311	EEESEEQNEGNSVLSGF	17	-5.99	-1.41	3.30	1882.8	Legumin (Minor small)
312	EITPEKNPQLQDLDFV	17	-3.00	-0.51	1.78	1998	Allergen Len c 1.0101
313	FEITPEKNPQLQDLDF	17	-3.00	-0.59	1.84	2046	Allergen Len c 1.0101
314	FEVTPEKKYPQLQDLDL	17	-2.00	-0.92	2.01	2062.1	Convicilin
315	FFEITPEKNPQLQDLDI	17	-3.00	-0.59	1.84	2046	Allergen Len c 1.0101
316	GKFFEITPEKNPQLQDL	17	-1.00	-0.91	1.89	2003	Allergen Len c 1.0101
317	LAFPGSAQEVDRLLENQ	17	-2.00	-0.37	1.88	1886	Vicilin
318	LLSGTQNQPSFLSGFSK	17	1.00	-0.22	0.99	1809.9	Allergen Len c 1.0101
319	NGDDVKSACCDTCLCTR	17	-1.25	-0.31	2.65	1802.7	Bowman-Birk inhibitor
320	LSPGDVFPVAPAGHPVAI	17	-0.91	1.08	-1.04	1673.9	Allergen Len c 1.0102
321	LSPGDVLPVAPAGHPVAI	17	-0.91	1.16	-1.21	1653.9	Allergen Len c 1.0101
322	LSPGDVVIIPAGHPVAI	17	-0.91	1.20	-1.21	1653.9	Convicilin
323	LSPGDVVIIPAGHPVSI	17	-0.91	1.05	-0.90	1669.9	Convicilin
324	NFLAGEEDNVISQIQRP	17	-2.00	-0.60	2.38	1929	Allergen Len c 1.0101
325	NILEAAFNTYEYEEIEKV	17	-3.99	-0.41	1.78	2011	Allergen Len c 1.0101
326	NLLGFGINAENNERNFL	17	-1.00	-0.38	1.91	1934	Convicilin
327	QWRPSHGKEEDEEKEQ	17	-3.90	-2.98	5.38	2139.9	Convicilin
328	SILEAAFNTDYEEIEKV	17	-4.00	-0.25	1.70	1970	Allergen Len c 1.0102
329	SVLEASLNTKYDTIEKV	17	-1.00	-0.22	1.62	1909	Convicilin
330	TEYEEIEKVLLEEQEQK	17	-4.99	-1.47	3.16	2136	Allergen Len c 1.0101
331	TFFIAPVDTKPQTGGGY	17	0.00	-0.15	0.48	1797.9	Lectin
332	TGSDDNVISQIENPVKE	17	-3.00	-0.90	2.70	1843.9	Convicilin

333	VLDLAIPVNRPGQLQSF	17	0.00	0.35	0.66	1866	Allergen Len c 1.0101
334	VNSVEIKEGSLLLPNYN	17	-1.00	-0.12	1.02	1888	Allergen Len c 1.0101
335	YQHEGKEEETSSESQER	17	-3.90	-2.61	5.24	2051.9	Convicilin
336	AGEEDNVISQIQRPVKEL	18	-2.00	-0.71	2.51	2024.1	Allergen Len c 1.0101
337	DALEPDNRIESEGLIET	18	-4.99	-0.81	2.71	1956.9	N-terminal incomplete legumin A1 pre-pro-polypeptide
338	DVIVKVSREQIEELSKNA	18	-1.00	-0.43	2.53	2056.1	Allergen Len c 1.0101
339	EITPEKNPQLQDLDFVN	18	-3.00	-0.68	2.05	2112.1	Allergen Len c 1.0101
340	FEITPEKNPQLQDLDFV	18	-3.00	-0.33	1.51	2145.1	Allergen Len c 1.0101
341	FFEITPEKNPQLQDLDF	18	-3.00	-0.41	1.57	2193.1	Allergen Len c 1.0101
342	FFEVTPEKKYPQLQDLDL	18	-2.00	-0.71	1.73	2209.1	Convicilin
343	FGKFFEITPEKNPQLQDL	18	-1.00	-0.70	1.62	2150.1	Allergen Len c 1.0101
344	FLPQYTDADFILVLSGK	18	-1.00	0.69	-0.10	2025.1	Allergen Len c 1.0102
345	ISLTDTGSSNNQLDQMPR	18	-1.00	-0.96	3.00	1975.9	N-terminal incomplete legumin A1 pre-pro-polypeptide
346	LAFPGSAQEVDRLLENQK	18	-1.00	-0.57	2.09	2014	Vicilin
347	LSPGDVLVIPAGHPVAIN	18	-0.91	0.90	-0.77	1768	Allergen Len c 1.0101
348	LSPGDVVIIPAGHPVVIS	18	-0.91	0.94	-0.66	1757	Convicilin
349	NEDVIVKVSREQIEELSK	18	-2.00	-0.72	3.00	2114.1	Allergen Len c 1.0101
350	NFLAGEEDNVISQIQRPV	18	-2.00	-0.33	2.03	2028	Allergen Len c 1.0101
351	NFLTGSDDNVISQIENPV	18	-3.00	-0.27	1.80	1960.9	Convicilin
352	NILEAAFNTYEYEEIEKVL	18	-3.99	-0.18	1.40	2124.1	Allergen Len c 1.0101
353	NLERGDTIKLPAGTIAYL	18	0.00	0.00	0.99	1944.1	Allergen Len c 1.0101
354	NSFNLERGDTIKLPAGTI	18	0.00	-0.32	1.75	1945	Allergen Len c 1.0101
355	NTEYEEIEKVLLEEQQK	18	-4.99	-1.58	3.36	2250.1	Allergen Len c 1.0101
356	SATTGAEFAAHEVHSWSF	18	-1.82	-0.08	0.99	1933.9	Lectin
357	SILEAAFNTDYEEIEKVL	18	-4.00	-0.03	1.33	2083	Allergen Len c 1.0102
358	SNRFQTLYENENGHIRLL	18	0.09	-0.98	3.12	2203.1	Vicilin 47k
359	SVLEASLNTKYDTIEKVL	18	-1.00	0.00	1.26	2022.1	Convicilin

360	TGSDDNVISQIENPVKEL	18	-3.00	-0.64	2.28	1957	Convicilin
361	VESEAGLTETWNPNHPEL	18	-3.90	-0.96	1.93	2021.9	Legumin B
362	VLDLAIPVNRPGQLQSFL	18	0.00	0.54	0.35	1979.1	Allergen Len c 1.0101
363	VNSVEIKEGSLLLPHYNS	18	-0.91	-0.14	1.04	1998	Vicilin
364	VNSVEIKEGSLLLPNYNS	18	-1.00	-0.16	1.15	1975	Allergen Len c 1.0101
365	VSSVEINEGGLLLPHYNS	18	-1.91	0.06	0.68	1927	Convicilin
366	AFNTEYEEIEKVLLEESEQ	19	-5.99	-1.05	2.63	2340.1	Allergen Len c 1.0101
367	AFPGSAQEVDRLLLENQKQS	19	-1.00	-0.96	2.71	2116.1	Vicilin
368	AKLSPGDVFPVAGHPVAI	19	0.09	0.86	-0.73	1873	Allergen Len c 1.0102
369	ARLSPGDVLVIPAGHPVAI	19	0.09	0.89	-0.39	1881.1	Allergen Len c 1.0101
370	EITPEKNPQLQDLDFVNS	19	-3.00	-0.68	2.12	2199.1	Allergen Len c 1.0101
371	FEITPEKNPQLQDLDFVN	19	-3.00	-0.49	1.78	2259.1	Allergen Len c 1.0101
372	FFEVTPEKKYPQLQDLDLL	19	-2.00	-0.47	1.38	2322.2	Convicilin
373	FNTEYEEIEKVLLEESEQK	19	-4.99	-1.35	3.02	2397.2	Allergen Len c 1.0101
374	LAGEEDNVISQIQRPVKEL	19	-2.00	-0.47	2.12	2137.1	Allergen Len c 1.0101
375	LDALEPDNRIESEGLIET	19	-4.99	-0.56	2.31	2070	N-terminal incomplete legumin A1 pre-pro-polypeptide
376	LGGNPETEFPETQEEQQGR	19	-3.99	-1.85	3.51	2145	Legumin J
377	LSPGDVVIIPAGHPVSISA	19	-0.91	0.99	-0.72	1828	Convicilin
378	LVDMVQLLVLMNGASVLDMH	19	-1.91	1.11	-0.42	2084	Potassium channel
379	NASSDLNLIGFGINAKNNQ	19	0.00	-0.41	1.67	1989	Allergen Len c 1.0101
380	NFLAGEEDNVISQIQRPVK	19	-1.00	-0.52	2.21	2156.1	Allergen Len c 1.0101
381	NFLTGSDDNVISQIENPVK	19	-2.00	-0.46	1.99	2089	Convicilin
382	NILEAAFNTEYEEIEKVLL	19	-3.99	0.03	1.07	2237.1	Allergen Len c 1.0101
383	NNPGQLESFLLSGTQNQPS	19	-1.00	-0.92	1.92	2030	Allergen Len c 1.0102
384	NRPGEPQSFLLSGNQNQPS	19	0.00	-1.40	2.83	2069	Vicilin
385	NRPGQLQSFLLSGTQNQPS	19	1.00	-0.97	2.29	2071	Allergen Len c 1.0101
386	NTEYEEIEKVLLEESEQKS	19	-4.99	-1.54	3.36	2337.1	Allergen Len c 1.0101
387	RSDQENPFIFKSNRFQTLY	19	1.00	-1.18	3.47	2389.2	Vicilin 47k

388	SILEAAFNTDYEEIEKVLL	19	-4.00	0.17	1.00	2196.1	Allergen Len c 1.0102
389	SVLEASLNTKYDTIEKVLL	19	-1.00	0.20	0.93	2135.2	Convicilin
390	VNSVEIKEGSLLLPNYNSR	19	0.00	-0.38	1.88	2131.1	Allergen Len c 1.0101
391	VSSVEINEGGLLLPHYNSR	19	-0.91	-0.18	1.43	2083.1	Convicilin
392	AAVDLPPVNESESEPTAKP	20	-3.00	-0.41	1.37	2063	Histone H1
393	AFNTEYEEIEKVLLEESEQK	20	-4.99	-1.20	2.78	2468.2	Allergen Len c 1.0101
394	AIVIVTVNEGKGFELVGQR	20	-1.00	0.32	0.95	2143.2	Allergen Len c 1.0101
395	DLAIPVNNPGQLESFLLSGT	20	-2.00	0.24	0.42	2084.1	Allergen Len c 1.0102
396	EITPEKNPQLQDLDFVNSV	20	-3.00	-0.44	1.81	2298.2	Allergen Len c 1.0101
397	FEITPEKNPQLQDLDFVNS	20	-3.00	-0.51	1.86	2346.2	Allergen Len c 1.0101
398	FFEITPEKNPQLQDLDFVNS	20	-3.00	-0.33	1.54	2406.2	Allergen Len c 1.0101
399	GDAMVNILSGEAEITIEGTI	20	-4.00	0.53	0.35	2032	UPI00019F5083
400	LSPGDVVIIPAGHPVSISAS	20	-0.91	0.90	-0.52	1915	Convicilin
401	LVNEGKGNLELVGFKNEQQE	20	-2.00	-0.90	2.04	2244.1	Convicilin
402	NEDVIVKVSREQIEELSKNA	20	-2.00	-0.74	2.95	2299.2	Allergen Len c 1.0101
403	NEGKGFELVGQRNENQQEQ	20	-2.99	-2.04	4.19	2318.1	Allergen Len c 1.0101
404	NFLAGEEDNVISQIQRPVKE	20	-2.00	-0.67	2.44	2285.2	Allergen Len c 1.0101
405	RSDQENPFIFKSNRFQTLYE	20	0.00	-1.30	3.64	2518.2	Vicilin 47k
406	SRSDQENPFIFKSNRFQTLY	20	1.00	-1.16	3.47	2476.2	Vicilin 47k
407	TLNEVVPLKDVVPEWVRIGF	20	-1.00	0.42	0.54	2309.3	Lectin
408	AFNTEYEEIEKVLLEESEQKS	21	-4.99	-1.18	2.81	2555.2	Allergen Len c 1.0101
409	DIFVNSVEIKEGSLLLPNYNS	21	-2.00	0.05	1.03	2350.2	Allergen Len c 1.0101
410	EAAFNTEYEEIEKVLLEESEQ	21	-6.99	-1.03	2.62	2540.2	Allergen Len c 1.0101
411	EQSPGQWRPSHGKEEDEEEKE	21	-4.90	-2.71	4.80	2510.1	Convicilin
412	FEITPEKNPQLQDLDFVNSV	21	-3.00	-0.29	1.58	2445.2	Allergen Len c 1.0101
413	FFEITPEKNPQLQDLDFVNS	21	-3.00	-0.35	1.63	2493.2	Allergen Len c 1.0101
414	NEDVIVKVSREQIEELSKNAK	21	-1.00	-0.89	3.07	2427.3	Allergen Len c 1.0101
415	NFLAGEEDNVISQIQRPVKEL	21	-2.00	-0.46	2.09	2398.2	Allergen Len c 1.0101
416	NFLTGSDDNVISQIENPVKEL	21	-3.00	-0.40	1.89	2331.2	Convicilin

417	NNPGQLESFLLSGTQNQPSFL	21	-1.00	-0.51	1.36	2290.1	Allergen Len c 1.0102
418	VTSYTLNEVVPLKDVVPEWVR	21	-1.00	0.13	1.03	2442.3	Lectin
419	AFNTDYEEIEKVLLEDQEQEPQ	22	-6.99	-1.30	3.01	2666.2	Allergen Len c 1.0102
420	ASSNLNLLGFGINAENNERNFL	22	-1.00	-0.27	1.78	2406.2	Convicilin
421	DIFVNSVEIKEGSLLLPNYNSR	22	-1.00	-0.16	1.66	2506.3	Allergen Len c 1.0101
422	EAAFNTYEYEEIEKVLLEEQEQK	22	-5.99	-1.16	2.76	2668.3	Allergen Len c 1.0101
423	EITPEKNPQLQDLDFVNSVEI	22	-4.00	-0.35	1.73	2540.3	Allergen Len c 1.0101
424	EQSPGQWRPSHGKEEDEEEKEQ	22	-4.90	-2.75	4.83	2638.2	Convicilin
425	FFEITPEKNPQLQDLDFVNSV	22	-3.00	-0.15	1.37	2592.3	Allergen Len c 1.0101
426	KELAFPGSAQEVDRLLLENQKQS	22	-1.00	-1.00	2.68	2486.3	Vicilin
427	SGFSKNILEAAFNTYEYEEIEKV	22	-2.99	-0.46	1.76	2517.2	Allergen Len c 1.0101
428	SLNTKYDTIEKVLLEEQENEPH	22	-3.90	-1.25	2.83	2628.3	Convicilin
429	TVNEGKGFELVGQRNENQQEQ	22	-2.99	-1.70	3.74	2518.2	Allergen Len c 1.0101
430	DLDIFVNSVEIKEGSLLLPNYNS	23	-3.00	0.06	1.10	2578.3	Allergen Len c 1.0101
431	EAAFNTYEYEEIEKVLLEEQEQKS	23	-5.99	-1.15	2.78	2755.3	Allergen Len c 1.0101
432	EITPEKNPQLQDLDFVNSVEIK	23	-3.00	-0.51	1.90	2668.4	Allergen Len c 1.0101
433	FEITPEKNPQLQDLDFVNSVEI	23	-4.00	-0.22	1.53	2687.4	Allergen Len c 1.0101
434	LSPGDVVIIPAGHPVSIASSNL	23	-0.91	0.76	-0.23	2229.2	Convicilin
435	SLNTKYDTIEKVLLEEQENEPHQ	23	-3.90	-1.35	2.95	2756.4	Convicilin
436	EAAFNTDYEEIEKVLLEDQEQEPQ	24	-7.99	-1.26	2.97	2866.3	Allergen Len c 1.0102
437	EASLNTKYDTIEKVLLEEQENEPH	24	-4.90	-1.22	2.80	2828.4	Convicilin
438	FEITPEKNPQLQDLDFVNSVEIK	24	-3.00	-0.37	1.69	2815.5	Allergen Len c 1.0101
439	LSPGDVVIIPAGHPVSIASSNLN	24	-0.91	0.58	0.06	2343.2	Convicilin
440	LVNEGKGNLELVGFKNEQQEREDN	24	-2.99	-1.37	3.24	2758.4	Convicilin
441	NILEAAFNTYEYEEIEKVLLEEQEQ	24	-6.99	-0.70	2.16	2880.4	Allergen Len c 1.0101
442	SKPHTIFLPQFTDADFILVVLVLSGK	24	0.09	0.45	0.26	2672.5	Allergen Len c 1.0101
443	SKPHTIFLPQQTADADFILVVLVLSGK	24	0.09	0.19	0.62	2653.4	Vicilin
444	VTSYTLNEVVPLKDVVPEWVRIGF	24	-1.00	0.40	0.54	2759.5	Lectin
445	AIVVLLVNEGKGNLELVGFKNEQQE	25	-2.00	0.02	0.84	2739.5	Convicilin

446	DLAIPVNNPGQLESFLLSGTQNQPS	25	-2.00	-0.33	1.18	2638.3	Allergen Len c 1.0102
447	EASLNTKYDTIEKVLLEEQENEPHQ	25	-4.90	-1.31	2.91	2956.4	Convicilin
448	FFEITPEKNPQLQDLDFVNSVEIK	25	-3.00	-0.24	1.51	2962.5	Allergen Len c 1.0101
449	FGKFFEITPEKNPQLQDLDFVNSV	25	-2.00	-0.19	1.27	2924.5	Allergen Len c 1.0101
450	KSKPHTIFLPQFTDADFILVVLGK	25	1.09	0.28	0.47	2800.6	Allergen Len c 1.0101
451	NILEAAFNTYEYEEIEKVLLEEQEQK	25	-5.99	-0.83	2.30	3008.5	Allergen Len c 1.0101
452	SILEAAFNTDYEEIEKVLLEDQEQE	25	-7.99	-0.71	2.37	2954.4	Allergen Len c 1.0102
453	TETTSFSITKFSPDQKNLIFQGDGY	25	-1.00	-0.66	1.92	2823.4	Lectin

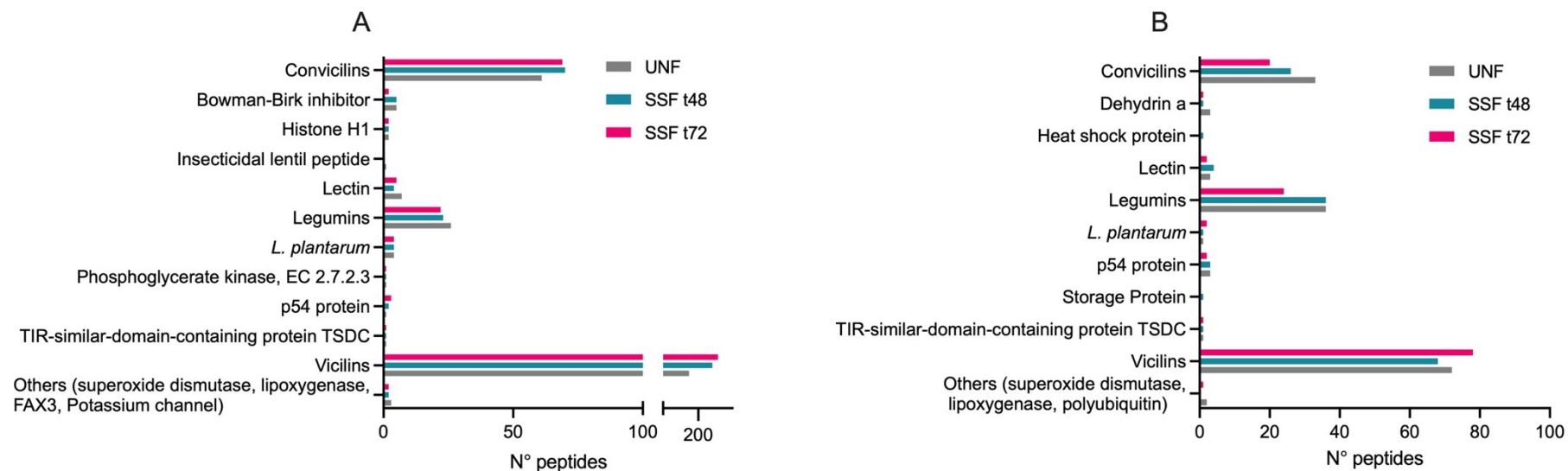
Peptides identified only in basolateral fluids

Identifying number	Sequence	Length	Net Charge	Hydrophobicity index	Boman Index	Mass	Leading razor protein
1	EKIPGTEQS	9	-1.00	-1.49	2.76	987.5	Dehydrin a
2	ETWNPNHPE	9	-1.91	-2.44	3.53	1122.5	Legumin B
3	LANRDDNED	9	-3.00	-2.21	6.05	1060.4	Allergen Len c 1.0101
4	NTNYEEIEK	9	-2.00	-2.10	4.12	1138.5	Beta-lathyrin 1
5	VNEGKGDPE	9	-2.00	-1.30	2.85	993.4	Allergen Len c 1.0101
6	EEVKVEVEDD	10	-4.99	-1.23	3.81	1189.5	Heat shock protein
7	LANRDDNEDL	10	-3.00	-1.61	4.95	1173.5	Allergen Len c 1.0101
8	LEDQEQEPQH	10	-3.91	-2.55	4.55	1251.5	Allergen Len c 1.0102
9	NAAWDPSNKE	10	-1.00	-1.76	3.18	1130.5	Lectin
10	QVEEQTEEKD	10	-3.99	-2.49	5.11	1233.5	Convicilin
11	SFNTGYEEIE	10	-3.00	-0.99	2.43	1187.5	Vicilin
12	EDNDFETKIDT	11	-4.00	-1.73	4.47	1325.6	p54 protein
13	EVESSDTIDNV	11	-4.00	-0.63	3.10	1206.5	Polyubiquitin
14	FNTDYEEIEKV	11	-3.00	-1.08	2.92	1385.6	Allergen Len c 1.0102
15	GTKPEYGSTNT	11	0.00	-1.59	2.58	1153.5	Dehydrin a
16	LTGSDDNVISQ	11	-2.00	-0.38	2.20	1147.5	Convicilin
17	QTLYENENGHI	11	-1.91	-1.35	2.64	1316.6	Vicilin 47k
18	ALEPDHRVESEA	12	-2.91	-1.04	3.30	1351.6	Legumin B

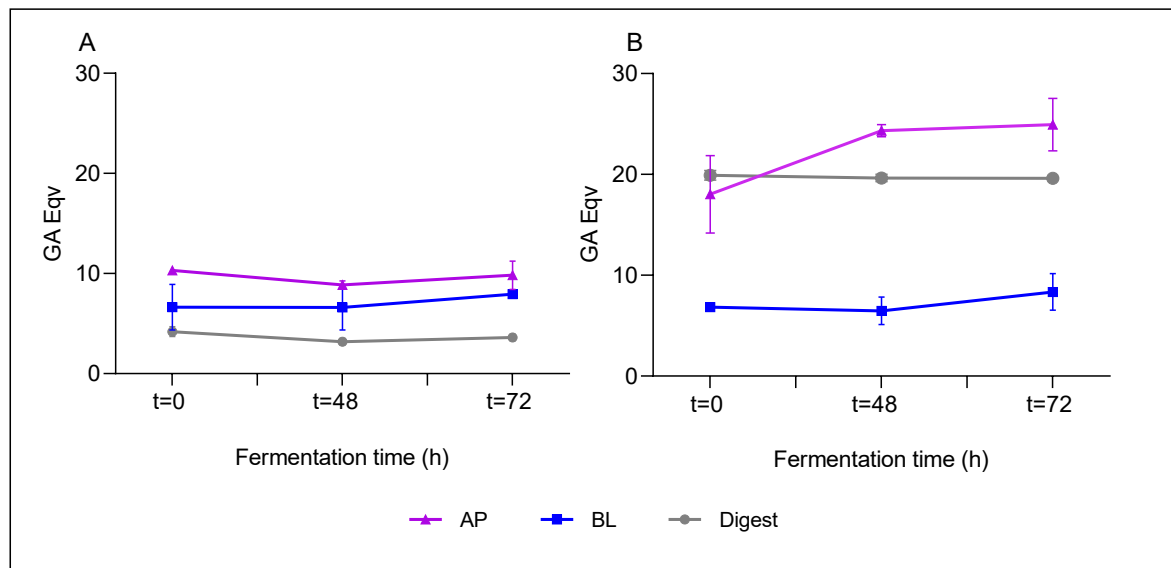
19	DALEPDNRIESE	12	-4.00	-1.48	4.27	1386.6	N-terminal incomplete legumin A1 pre-pro-polypeptide
20	EGSLLLPNYNSR	12	0.00	-0.71	2.19	1361.7	Allergen Len c 1.0101
21	FLTGSDDNVISQ	12	-2.00	-0.12	1.77	1294.6	Convicilin
22	KVLLEDQEQEPQ	12	-3.00	-1.52	3.12	1454.7	Allergen Len c 1.0102
23	NDDEGSEPRVPG	12	-3.00	-1.88	4.18	1270.5	Convicilin
24	TVLSPNDRNSYN	12	0.00	-1.31	3.68	1378.6	Convicilin
25	YNAAWDPSNKER	12	0.00	-1.95	3.91	1449.7	Lectin
26	GKFFEITPEKNPQ	13	0.00	-1.23	2.13	1533.8	Allergen Len c 1.0101
27	LEPDNRIESEGGL	13	-3.00	-1.01	2.88	1427.7	N-terminal incomplete legumin A1 pre-pro-polypeptide
28	NALEPDHRVESEA	13	-2.91	-1.23	3.55	1465.7	Legumin B
29	NIGSSSSPDIYNP	13	-1.00	-0.74	1.92	1349.6	N-terminal incomplete legumin A1 pre-pro-polypeptide
30	REESDEEEEEQEEE	13	-8.99	-3.37	7.22	1665.6	Beta-lathyrin 1
31	SVSSESEPFNLRS	13	-1.00	-0.75	3.10	1437.7	Allergen Len c 1.0101
32	VFEDNDFETKIDT	13	-4.00	-0.92	3.25	1571.7	p54 protein
33	VVEEEEGEWRSQ	13	-3.99	-1.51	3.51	1532.7	Convicilin
34	YLVNPDDEEDLRV	13	-4.00	-0.95	3.35	1575.7	Convicilin
35	YQHEGKEETSSE	13	-3.90	-2.47	4.49	1551.6	Convicilin
36	ALEPDNRIESEGGL	14	-3.00	-0.81	2.55	1498.7	N-terminal incomplete legumin A1 pre-pro-polypeptide
37	DALEPDNRIESEGG	14	-4.00	-1.33	3.52	1500.7	N-terminal incomplete legumin A1 pre-pro-polypeptide
38	KVVEEEEGEWRSQ	14	-2.99	-1.68	3.66	1660.8	Convicilin
39	LVNPDDEEDLRVVD	14	-5.00	-0.74	3.44	1626.8	Convicilin
40	NLERGDTIKLPAGT	14	0.00	-0.63	2.10	1483.8	Allergen Len c 1.0101
41	LDALEPDNRIESEGG	15	-4.00	-0.99	2.96	1613.8	N-terminal incomplete legumin A1 pre-pro-polypeptide
42	NDDEGSEPRVPGQRE	15	-3.00	-2.27	5.16	1683.7	Convicilin

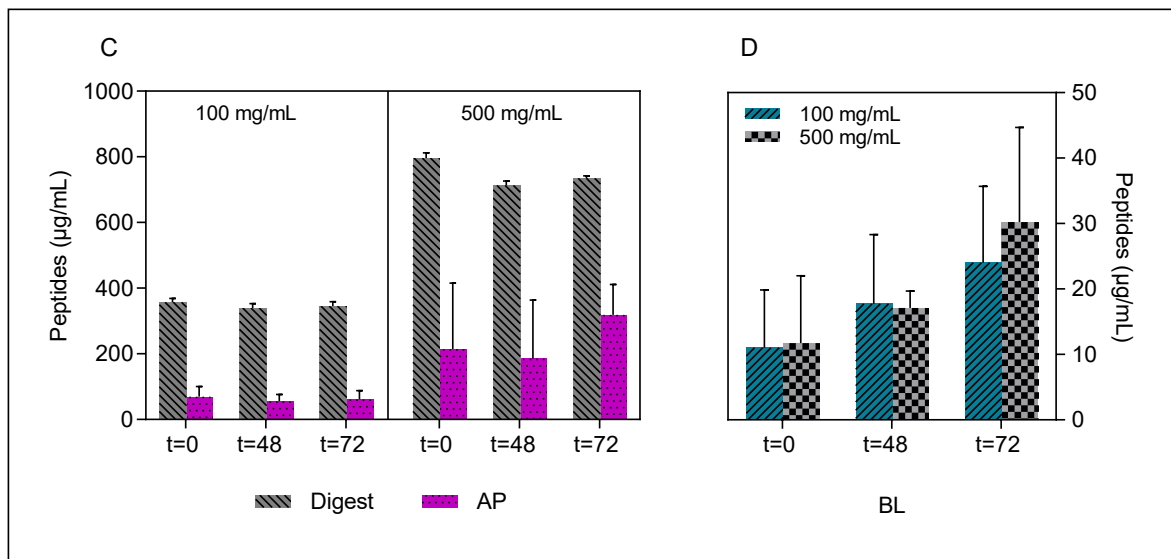
43	SLTDTGSSNNQLDQM	15	-2.00	-1.05	2.93	1609.7	N-terminal incomplete legumin A1 pre-pro-polypeptide
44	DALEPDNRIESEGLI	16	-4.00	-0.64	2.47	1726.8	N-terminal incomplete legumin A1 pre-pro-polypeptide
45	ENDDEEEQEETSTQVQ	17	-8.99	-2.56	5.46	2037.8	Allergen Len c 1.0102
46	HAGDLGNINVGDDGTVS	17	-2.91	-0.31	1.56	1639.7	Superoxide dismutase, EC 1.15.1.1
47	KEDEEKVVEEEEGEWRGS	18	-5.99	-2.11	4.46	2163	Convicilin
48	KEDEEKVVEEEEGEWRGSQ	19	-5.99	-2.18	4.52	2291	Convicilin

Supplementary Figure 1. Parental proteins of peptides in the bioaccessible (A) and basolateral fraction (B) of unfermented and fermented samples. UNF= unfermented; SSFt48= solid-state fermented with *L. plantarum* for 48 h, SSFt72= solid-state fermented for 72 h. Peptides were included in the category only if identified in at least 2/3 biological replicates.



Supplementary Figure 2. Concentration of total phenolic content (A, B) and peptides content (C, D) in the apical (AP) and basolateral (BL) fluids after incubation with 100 mg/mL and 500 mg/mL of digest. A: TPC, 100mg/mL digest. B: TPC, 500 mg/mL digest. C: peptides content in digest and AP fluids. D: peptide content in BL fluids. Results are shown as mean values \pm SD of three independent replicates.





Supplementary Table 2. Content of peptides in apical (AP) and basolateral (BL) fluids after 2 hours incubation with green lentil digest pre-fermented for 0, 48, 72 hours. Values are expressed as percentage relative to the initial content present in the digest.

Location	Concentration Digest	t= 0 h	t= 48 h	t=72h
AP	100	79.9 %	74.5 %	67.6 %
	500	48.3 %	48.3 %	62.4 %
BL	100	7.3 %	10.9 %	17.2 %
	500	1.6 %	2.7 %	4.9 %

Supplementary Figure 3. Representation of the facilitated (Na-dependent) model of dietary glucose absorption in the small intestine. Intestinal glucose transport is a concentration-dependent process mediated by two transporters, the sodium-dependent glucose transporter (SGLT1) on the apical side and the sodium-independent glucose transporter 2 (GLUT2) on the basolateral side. Before a meal and with low level of luminal glucose, SGLT1 is the major regulator of glucose transport in the enterocytes. GLUT2 is primarily located at the basolateral membrane and balances glucose between blood and enterocytes. After meal consumption, when there is high glucose concentration at the apical side of epithelial cells, the amount of apical GLUT2 is greatly increased and it becomes the major regulator of intestinal glucose absorption. Figure created with Biorender and adapted from Kellett and Brot-Laroche.¹⁰

