

Supporting Information

Absolute Quantification of Allergen Glb33 in Rice by Liquid Chromatography-Mass Spectrometry using Double Isotope-Labelled Standard Peptides

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Author Contributions

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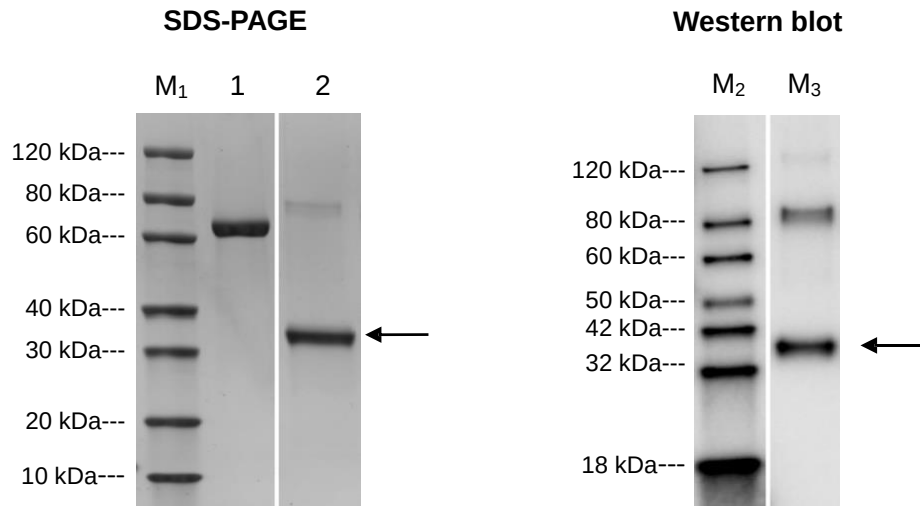


Figure S1. SDS-PAGE and Western blot analysis of Glb33. Lane M₁, Lane M₂, protein marker; Lane 1, BSA (2.00 μ g); Lane 2, Glb33 (Reducing conditions, 2.00 μ g); Lane 3, Glb33 (Reducing conditions); Primary antibody, mouse-anti-His mAb.

Table S1

Information related to peptides from tryptic allergen Glb33 identified by NanoLC-LTQ-Orbitrap analysis was verified by sequence database searches.

Sequence in Protein	Positions in Protein	Quality PEP ^a	Protein Groups	Proteins	PSMs ^b	Master Protein Accessions	Missed Cleavages	Theo. MH+ (Da)
R.GPTPEPLCQVMLR.V	[150-162]	0.235	1	4	6	Q948T6	0	1497.75523
K.YTNAFLGFGPEDTNFALELTYNYGVDK.Y	[61-87]	0.00422	1	3	4	Q948T6	0	3059.43091
K.YTIAMLGYADEDKTTVIELTYNYGVTEYTK.G	[192-221]	0.161	1	2	4	Q948T6	1	3465.6658
K.YTIAMLGYADEDK.T	[192-204]	0.0796	1	2	2	Q948T6	0	1489.68792
K.YDIGAGFGHFIAIATEDVYK.L	[88-106]	0.00543	1	3	7	Q948T6	0	2073.99163
K.VVLVDNADFLKELQ.	[278-291]	0.0806	1	1	3	Q948T6	1	1602.87375
K.VVLVDNADFLK.E	[278-288]	0.0593	1	1	4	Q948T6	0	1232.68851
K.TTVIELTYNYGVTEYTK.G	[205-221]	0.0248	1	2	5	Q948T6	0	1994.99571
K.SPEVVLEWPKK.D	[10-20]	0.345	1	3	2	Q948T6	1	1311.73071
K.SPEVVLEWPK.K	[10-19]	0.118	1	3	4	Q948T6	0	1183.63575
K.SAEAVELVTK.E	[238-247]	0.177	1	2	4	Q948T6	0	1046.57282
K.ILRQPGPLPGLNTK.I	[253-266]	0.671	1	2	1	Q948T6	1	1503.90057
K.IASFLDPDGWK.V	[267-277]	0.128	1	2	2	Q948T6	0	1248.62591
K.GNAYAQVAIGTEDVYK.S	[222-237]	0.00799	1	2	7	Q948T6	0	1698.83334
K.GGSTVIAFAQDPDGYMFELIQR.G	[128-149]	0.000619	1	3	12	Q948T6	0	2415.16492

^a posterior error probability for the identified peptide group.

^b the total number of peptide-spectrum matches identified from all included searches.