

SUPPLEMENTARY MATERIALS

The water-soluble and oil-soluble almond armelline protein extracts and the oil-soluble hazelnut, almond, walnut, and peanut protein extracts were separated under reducing conditions on 4-12% Nu-PAGE precast gel (1DE) (Invitrogen Life Technologies Ltd.). The 1DE gels were then electro-blotted and incubated with the patient's serum and with a negative control (serum of a pool of five non-allergic subjects).

In order to identify the proteins contained in immune reactive bands, Data Dependent Analysis (DDA) files obtained by LC-HRMS/MS analysis were searched using MaxQuant (<https://maxquant.org>) v. 2.4.13 against the UniProt database considering the respective protein extracts (almond, hazelnut, walnut, peanut and apricot). For protein identification purposes, the peptide score was set at 5 for unmodified and modified peptides, and only proteins identified with a higher score than 10 and with more than 2 peptides were accepted.