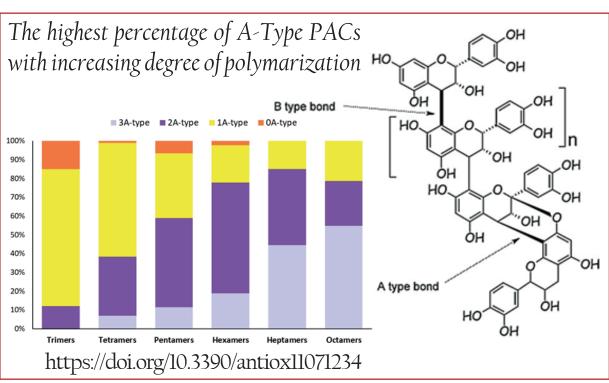
A patented formulation based on Pinus pinaster, Vitisvinifera, Arachis hypogaea and Vaccinium vitis-idaea Color of proanthocyanidins (370-800 g/kg) on the market





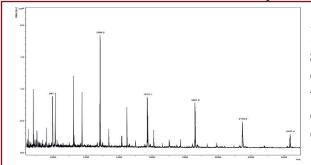


Callero CalsP4 powder extract with 37%-80% total proanthocyanidins (PACs, BL-DMAC) with a standardized 60% of A-type PACs (LC-MS/MS)

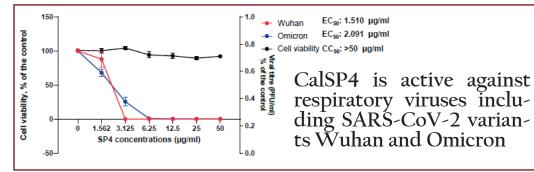
CalSP4

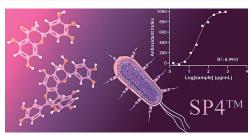
A patented formulation based on Pinus pinaster, Vitis vinifera, Arachis hypogaea and Vaccinium vitis-idaea with the highest standardized content of proanthocyanidins (370-800 g/kg) on the market

SCIENTIFIC EVIDENCE

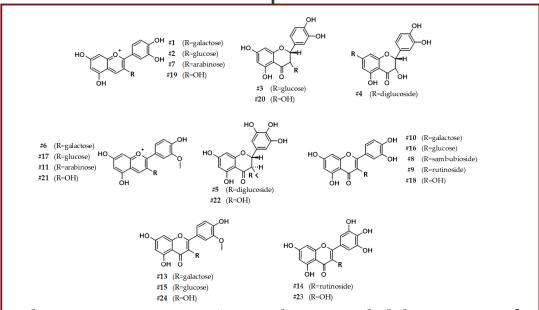


MALDI-QTOF analyses confirm the degree of polymerization and the high percentages of A-type linkages of CalSP4 PACs





HRBC hemagglutination assay specific for uropathogenic P-fimbriated Escherichia colishows a strong anti-adhesion activity



CalSP4 UHPLC-ESI-MS/MS analyses revealed the presence of a wide array of antioxidant polyphenols with an EC $_{50}$ of 30.11 μ g/ml similar to BHA and BHT, twice as much that of resveratrol and 21 times the antioxidant activity of epicatechin. https://doi.or-

g/10.3390/antiox11071234

ELISA test and the DNA-Real-time PCR method reveal that the ALLERGEN CONTENT of peanut allergens of CalSP4 is hundred times below the threshold limits.



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