



nsLTP

Components in ALEX

LTP	
Cor a 8	http://www.allergenius.it/doc/cora8.pdf
Pru p 3	http://www.allergenius.it/doc/prup3.pdf
Art v 3	http://www.allergenius.it/doc/artv3.pdf
Pla a 3	http://www.allergenius.it/doc/plaa3.pdf
Ara h 9	http://www.allergenius.it/doc/arah9.pdf
Jug r 3	http://www.allergenius.it/doc/jugr3.pdf
Ole e 7	http://www.allergenius.it/doc/olee7.pdf
Par j 2	http://www.allergenius.it/doc/parj2.pdf
Tri a14	http://www.allergenius.it/doc/tria14.pdf

a ltp.pdf			
Pyr c 3	Pyrus communis	Ros r 3	Rosa rugosa
Vit v 1	Grape Vitis vinifera	Sin a 3	Brassica alba
Mal d 3	Malus domestica	Bra r 3	Brassica rapa
Rub i 3	Rubus idaeus	Cit r 3	Cit r 3
All c 3	Allium cepa	Cot l 3	Cotoneaster lacteus
Jug r 3	Juglans regia	Hel a 3	Helianthus annuus
Jug r 8	Juglans regia	Par j 1	Parietaria judaica
Foe v 3	Foeniculum vulgare	Rib r 3	Ribes rubrum
Mor n 3	Morus nigra	Lac s 1	Lactuca sativa
Pis s 3	Pisum sativum	Par o 1	Parietaria officinalis
Cit s 3	Citrus sinensis	Cas s 8	Castanea sativa
Fra a 3	Fragaria ananassa	Pru p 3	Prunus persica
Pru d 3	Prunus domestica	Art v 3	Artemisia vulgaris
Dau c 3	Daucus carota	Pha v 3	Phaseolus vulgaris
Pun g 1	Punica granatum	Cit l 3	Citrus limon
All a 3	Allium ascalonicum	Pet c 3	Petroselinum crispum
Api g 2	Apium graveolens	Pla a 3	Platanus acerifolia
Api g 6	Apium graveolens		
Cic a 3	Cicer arietinum		
Fra e 7	Fraxinus excelsior		
Cro s 3	Crocus sativus		
Ole e 7	Olea europaea		
Bra o 3	Brassica oleracea		
Ara t 3	Arabidopsis thaliana		
Ara h 9	Arachis hypogaea		
Can s 3	Cannabis sativa		
Len c 3	Lens culinaris		
Par m 1	Parietaria mauritanica		
Vac m 3	Vaccinium myrtillus		
Mus a 3	Musa acuminata		

Plant lipid transfer proteins are a group of highly-conserved proteins of about 9kDa found in higher plant tissues. As its name implies, lipid transfer proteins are responsible for the shuttling of phospholipids and other fatty acid groups between cell membranes.

LTPs are more represented in the fruit peel than in the pulp.

Lipid Transfer Proteins are resistant to heat, low pH and gastro-enteric peptidase. For these reasons, LTPs maintain their allergenicity also following cooking and gastric digestion, and may cause not only OAS but also systemic effects including anaphylaxis. (Automatic translation. Thanks for reporting errors to info@allergenius.it).