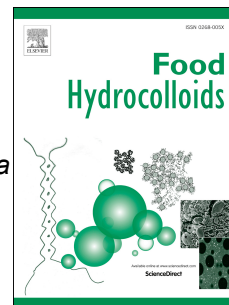


Accepted Manuscript

Rheological behaviour of acetylated pectins from cactus pear fruits (*Opuntia albicarpa* and *O. matudae*)

Yareli Morales-Martínez, Ma del Rocío López-Cuellar, Norberto Chavarría-Hernández, Adriana Inés Rodríguez-Hernández



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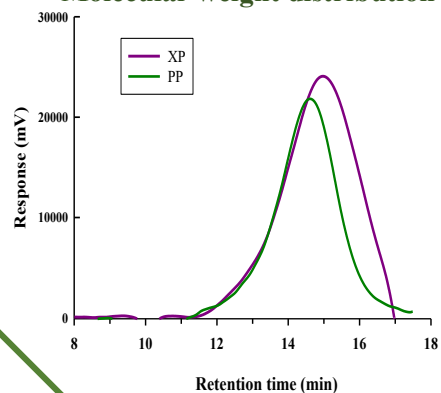


Sweet prickly pear
(*Opuntia albicarpa*)



Acidic prickly-pear,
'xoconostle'
(*O. matudae*)

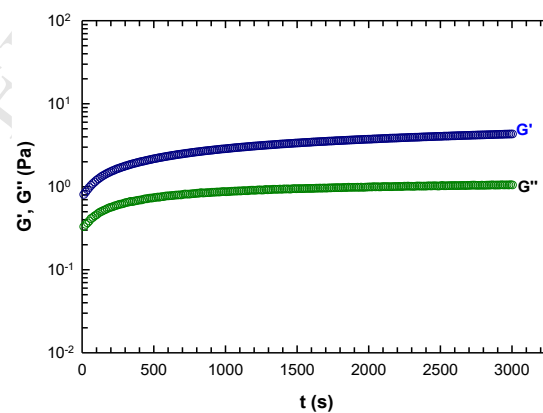
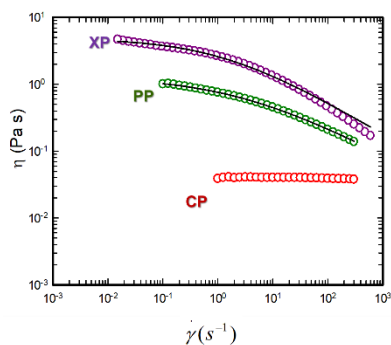
Molecular weight distribution



Acetylated-low methoxyl pectins

	Prickly pear pectin (PP)	Xoconostle pectin (XP)
Extraction yield (g _{AIS} /100 g dry vegetal material)	13.66 ± 2.00	10.46 ± 2.56
Galacturonic acid (% w/w, db)	65.23 ± 0.88	75.72 ± 8.21
Protein (% w/w, db)	10.82 ± 3.52	2.58 ± 0.65
Total sugars (% w/w, db)	90.90 ± 8.00	74.03 ± 4.41
Degree of methoxylation (DM, %)	26.83 ± 5.81	45.62 ± 1.15
Degree of acetylation (DA, %)	21.83 ± 0.43	4.94 ± 0.38
Mw (kDa)	204.08	161.73
Polydispersity index (Mw/Mn)	3.19	4.87

Flow properties



Gelling pectins

CP: Citrus pectin; XP: xoconostle pectin; PP: prickly pear pectin

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