

**Supplementary Table S1.** This is a table. Gelling Agar agent replaced formulation (partially or fully) for *O. ficus-indica* or *O. robusta* hydrocolloids.

Treatments	Agar	Mucilage	Pectin	Treatments	Agar	Mucilage	Pectin
CT	0.8	0.0	0.0	T9	0.0	0.0	0.8 OR
T1	0.0	0.0	0.8 OFI	T10	0.2	0.0	0.6 OR
T2	0.2	0.0	0.6 OFI	T11	0.4	0.0	0.4 OR
T3	0.4	0.0	0.4 OFI	T12	0.6	0.0	0.2 OR
T4	0.6	0.0	0.2 OFI	T13	0.0	0.8 OR	0.0
T5	0.0	0.8 OFI	0.0	T14	0.2	0.6 OR	0.0
T6	0.2	0.6 OFI	0.0	T15	0.4	0.4 OR	0.0
T7	0.4	0.4 OFI	0.0	T16	0.6	0.2 OR	0,0
T8	0.6	0.2 OFI	0.0				

\* *Opuntia ficus-indica* (OFI), *Opuntia robusta* (OR). (50 ml = 0.40 g of Agar 0.8 % w/v), CT: Control treatment.