

Table 1. Fructose induced disintegration of synthesized PCC-PVA cryogels after 15 days.

Cryogel	Percentage reduction in cryogel dry weight after 15 days in response to			
	Buffer	Fructose (100 mM)	Fructose (500 mM)	Fructose (1 M)
NVP^A	12.45±0.67	28.41±2.20	61.23±2.0	79.98±1.93
AVP^B	14.37±0.81	51.84±3.34	78.17±1.64	100
AADP^C	19.07±0.68	100	100	100

The cryogels treated with phosphate buffer have served as controls. Fructose treated cryogels have exhibited significant amounts of disintegration as compared to controls. AADP cryogels have recorded highest levels of fructose-responsiveness followed by AVP and NVP cryogels respectively.

- ^ANVP : Poly(NIPAAm-co-VPBA)-PVA Cryogel
^BAVP : Poly(AAm-co-VPBA)-PVA Cryogel
^CAADP : poly(AAm-co-AAPBA-co-DMAEMA)-PVA