

Table 1 Activities of enzymes related to cell wall metabolism in three melon varieties during fruit development

Cultivar	Time	Growth stages	Polygalacturonase (PG; mg/h/g FW)	β -galactosidase (β -GAL; nmol/min/g FW)	Pectin methylesterase (PME; U/g FW)	Catalase (Cx; μ g/min/g FW)
15B-42-1	Autumn	W	15.86 \pm 1.15cd	771.08 \pm 4.07e	1.27 \pm 0.01e	91.73 \pm 2.64g
		T	18.33 \pm 0.73cd	1100.66 \pm 35.04bc	2.59 \pm 0.02b	112.83 \pm 2.34f
		M	17.14 \pm 0.75cd	993.32 \pm 13.63cd	1.77 \pm 0.02d	191.29 \pm 7.81c
	Spring	W	35.16 \pm 0.67c	1289.72 \pm 73.59de	2.08 \pm 0.02h	106.82 \pm 4.47c
		T	48.64 \pm 6.34b	1438.53 \pm 66.41cd	2.86 \pm 0.05f	170.13 \pm 1.57a
		M	46.61 \pm 2.00b	1393.91 \pm 22.08cd	2.53 \pm 0.05g	183.46 \pm 9.22a
15B-42F-1	Autumn	W	37.93 \pm 4.22b	901.99 \pm 15.19de	2.57 \pm 0.05b	110.86 \pm 7.25f
		T	60.52 \pm 1.48a	1364.90 \pm 64.58a	3.01 \pm 0.02a	285.88 \pm 3.73b
		M	55.58 \pm 4.14a	1066.02 \pm 59.98c	2.70 \pm 0.02b	334.61 \pm 3.94a
	Spring	W	31.96 \pm 2.89d	1596.34 \pm 140.77c	3.08 \pm 0.07ef	108.15 \pm 1.57c
		T	69.82 \pm 2.22a	2222.74 \pm 102.81a	4.42 \pm 0.07a	131.02 \pm 8.31b
		M	64.87 \pm 1.28a	1937.55 \pm 43.60b	4.12 \pm 0.04b	166.58 \pm 8.38a
04-38F-1	Autumn	W	12.28 \pm 0.45e	914.05 \pm 36.33de	2.09 \pm 0.08c	130.66 \pm 3.13e
		T	37.87 \pm 0.70b	1236.06 \pm 41.19ab	2.97 \pm 0.13a	162.53 \pm 6.72d
		M	22.48 \pm 0.65c	783.28 \pm 88.35e	2.66 \pm 0.06b	301.22 \pm 9.75b
	Spring	W	32.29 \pm 2.84c	927.36 \pm 14.72f	3.13 \pm 0.10de	107.07 \pm 3.81c
		T	47.83 \pm 0.60b	1092.95 \pm 130.53ef	3.76 \pm 0.02c	121.68 \pm 2.26bc
		M	44.76 \pm 0.30b	1033.66 \pm 50.29ef	3.37 \pm 0.18d	135.25 \pm 10.93b

Note: Different letters denote significant differences at $p \leq 0.05$ according to Duncan's multiple range tests. The fruits were classified into three different developmental stages according to the color of the receptacle: the white fruit stage (W); turn color fruit stage (T); and mature stage fruit (M)