

Supplementary Table S1. The main effects of packaging types and storage days, and preharvest treatments on colour values of mushrooms.

	Category	L*	a*	b*	Delta E
Storage days	Day1	93.971 ^d	0.004 ^b	10.055 ^a	10.711 ^a
	Day2	93.371 ^c	-0.091 ^{ab}	11.009 ^b	11.764 ^b
	Day3	92.839 ^{bc}	-0.285 ^a	11.989 ^c	12.865 ^c
	Day4	92.311 ^b	0.026 ^b	13.141 ^d	14.128 ^d
	Day5	90.338 ^a	1.074 ^c	14.835 ^e	16.643 ^e
Preharvest trt	PHTc	92.631 ^a	0.084 ^a	12.430 ^b	13.400 ^a
	PHTs	92.500 ^a	0.207 ^a	11.981 ^a	13.045 ^a
Packaging Types	pMAP1	92.874 ^b	0.022 ^a	12.181 ^b	13.059 ^b
	pMAP2	93.236 ^b	0.005 ^a	11.290 ^a	12.081 ^a
	pMAP3	92.263 ^a	0.057 ^a	12.317 ^b	13.398 ^b
	pMAPc	91.892 ^a	0.498 ^b	13.036 ^c	14.351 ^c

PHTC- control preharvest treatment; PHTS: Silicon preharvest treatment; PMAP1: one hole perforation size of 1.1 mm on PET lidding film; PMAP2: two holes perforation size of 0.53 mm on PET lidding film ; PMAP3: three holes of perforation size of 0.53 mm on PET lidding film; PMAPC: conventional packaging system.

Supplementary Table S2. The double interaction effects storage days x packaging types on colour values of mushrooms.

	Category	L*	a*	b*	Delta E
Storage day*Packaging Types	Day5*pMAP1	91.113 ^b	0.405 ^{ef}	15.073 ^g	16.416 ^h
	Day5*pMAP3	91.038 ^b	0.718 ^f	14.793 ^g	16.193 ^{gh}
	Day4*pMAP3	92.178 ^{bcd}	0.133 ^{bcde}	13.003 ^{def}	14.061 ^{ef}
	Day5*pMAPc	86.880 ^a	2.900 ^g	16.450 ^h	19.933 ⁱ
	Day4*pMAPc	92.315 ^{cde}	0.055 ^{bcde}	14.085 ^{fg}	15.044 ^{fg}
	Day5*pMAP2	92.320 ^{cde}	0.273 ^{def}	13.025 ^{ef}	14.029 ^{ef}
	Day4*pMAP1	92.300 ^{cde}	-0.078 ^{bcde}	13.153 ^{ef}	14.118 ^{ef}
	Day4*pMAP2	92.450 ^{def}	-0.007 ^{bcde}	12.323 ^{cde}	13.291 ^{cde}
	Day3*pMAP2	93.355 ^{efgh}	-0.155 ^{abcd}	11.433 ^{bc}	12.146 ^{bc}
	Day3*pMAP3	91.223 ^{bc}	-0.203 ^{abcd}	12.220 ^{cde}	13.696 ^{def}
	Day3*pMAP1	92.638 ^{defg}	-0.123 ^{bcd}	12.090 ^{cde}	13.002 ^{cde}
	Day2*pMAP1	93.713 ^{ghi}	0.170 ^{cde}	10.625 ^{ab}	11.342 ^{ab}
	Day3*pMAPc	94.140 ^{hi}	-0.660 ^a	12.215 ^{cde}	12.617 ^{bcd}
	Day2*pMAP3	93.125 ^{defgh}	-0.353 ^{ab}	11.573 ^{bc}	12.329 ^{bc}
	Day1*pMAPc	93.578 ^{fghi}	0.153 ^{bcde}	10.625 ^{ab}	11.379 ^{ab}
	Day2*pMAPc	92.545 ^{def}	0.043 ^{bcde}	11.803 ^{bcd}	12.784 ^{cde}
	Day1*pMAP2	93.950 ^{hi}	0.138 ^{bcde}	9.633 ^a	10.335 ^a
	Day1*pMAP3	93.750 ^{ghi}	-0.008 ^{bcde}	9.998 ^a	10.712 ^a
	Day1*pMAP1	94.605 ⁱ	-0.268 ^{abc}	9.965 ^a	10.418 ^a
	Day2*pMAP2	94.103 ^{hi}	-0.225 ^{abcd}	10.035 ^a	10.602 ^a

PMAP1: one hole perforation size of 1.1 mm on monoPET lidding film; PMAP2: two holes perforation size of 0.53 mm on monoPET lidding film; PMAP3: three holes of perforation size of 0.53 mm on monoPET lidding film; PMAPc: OMNI-PW film micro-perforated conventional packaging system.