

Supplementary Table 1. Tomato accessions for the evaluation of physiological traits against low temperature in winter 2020-2021.

No	Origin name	Species	Field number	Fruit type
T01	IT173771	<i>Solanum peruvianum</i>	WTM23	Wild
T02	L3708	<i>Solanum pimpinellifolium</i>	WTM24	Wild
T03	MEX-SBY-1997-2799	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM02	Cherry
T04	K160289	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM09	Cherry
T05	Wonye 9014	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM10	Cherry
T06	VI037163	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM11	Cherry
T07	SY x 11AVT-2_4 (F9)	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM12	Cherry
T08	Wonye 9015	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM13	Cherry
T09	AVTO1020	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM14	Cherry
T10	T088-47	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM15	Cherry
T11	Power Guard	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM16	Cherry
T12	T088-43	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM17	Cherry
T13	ACC416	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM18	Cherry
T14	Yulwon	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM20	Cherry
T15	SWEETIE	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM21	Cherry
T16	ACC440	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM22	Cherry
T17	Minichal	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM30	Cherry
T18	Candy Plus	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM31	Cherry
T19	TY Sispen	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM32	Cherry
T20	Black Cue	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM33	Cherry
T21	Icon513	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM34	Cherry
T22	TY Endorphin	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM35	Cherry
T23	AVTO1314	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM03	Medium
T24	AVTO1219	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM04	Medium
T25	K012912	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM05	Medium
T26	L05945	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM06	Medium
T27	AVTO1456	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM07	Medium
T28	B-strong	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM08	Medium
T29	ACC417	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM19	Medium
T30	Hoyoung	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM28	Medium
T31	Black Change	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM29	Medium
T32	Tom Little	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM25	Medium
T33	Tom Heart	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM26	Medium
T34	AVTO9001	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM01	Large
T35	Dafnis	<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	WTM27	Large

Supplementary Table 2. Loading matrix associated with the principal components analysis (PCA) for 9 physiological traits.

Value	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9
Eigenvalue	3.692	2.396	1.142	.799	.452	.220	.139	.099	.060
Variability (%)	41.024	26.626	12.683	8.877	5.027	2.449	1.542	1.100	.671
Cumulative (%)	41.024	67.650	80.333	89.210	94.237	96.687	98.228	99.329	100.000
Component loading									
LL	.941	.144	.114	.016	.122	.084	-.011	-.243	.000
LW	.939	.023	.041	-.024	.202	.112	.040	.246	.012
FS	.041	.932	.306	-.020	.145	-.081	.014	-.014	-.094
NFR	.074	.746	.288	.479	.217	-.077	.045	.008	.264
MY	.060	.222	.967	.013	-.033	.005	-.105	-.012	.006
FY	.142	.391	.765	.262	.167	.056	.375	.015	.018
NFL	-.025	.086	.079	.986	.118	.006	.021	-.002	-.003
PH	.294	.225	.033	.165	.909	.086	.022	.003	.010
SD	.659	-.196	.054	-.003	.160	.706	.012	.002	-.006