



Figure S1. Potato cultivars salt stress exposure for 4 weeks.

Table S1. Salinity tolerance coefficient of different indicators.

Cultivar	Time (h)	Salinity tolerant coefficient					
		Proline content	Soluble protein	Soluble sugar	CAT activity	POD activity	SOD activity
'Longshu 5'	0	1	1	1	1	1	1
	20	1.201	1.411	1.170	0.890	0.919	1.434
	24	0.888	1.453	1.967	0.713	1.014	1.507
	48	4.804	1.322	1.192	0.822	1.288	1.201
	72	9.464	1.501	1.825	0.779	1.661	1.807
	96	13.101	1.295	1.854	0.891	1.441	1.672
	CV (%)	92.7	12.3	25.8	10.8	21.9	18.9
'Qingshu 9'	0	1	1	1	1	1	1
	20	1.429	1.102	1.058	0.915	1.084	0.979
	24	3.846	1.818	2.008	0.713	1.232	1.360
	48	6.497	1.061	1.664	0.875	1.196	0.624
	72	20.424	0.959	1.751	0.763	1.164	0.768
	96	26.545	0.751	1.049	0.706	1.212	1.046
	CV (%)	99.3	29.9	28.1	13.2	7.1	23.9

Note: CV refers to the coefficients of variation.

Table S2. Correlation matrix of seven indicators.

	Zproline content	Zsoluble protein	Zsoluble sugar	ZCAT activity	ZPOD activity	ZSOD activity	ZMDA content
Zproline content	1						
Zsoluble protein	-0.463	1					
Zsoluble sugar	0.111	0.615*	1				
ZCAT activity	-0.497*	-0.327	-0.588*	1			
ZPOD activity	0.407	0.271	0.481	-0.343	1		
ZSOD activity	-0.126	0.686**	0.411	-0.255	0.476	1	

ZMDA content	0.113	0.229	0.568	-0.077	0.575*	0.361	1
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Note: Z refers to the standardized data via Z score. * and ** indicated a significant difference significant difference ($p<0.05$) and extremely significant difference ($p<0.01$), respectively.

Table S3. Characteristic vectors of normalization by principal component analysis.

	Component		
	PCA 1	PCA 2	PCA 3
Zproline	0.095	-0.728	-0.049
Zsoluble protein	0.395	0.479	-0.263
Zsoluble sugar	0.483	-0.006	-0.131
ZCAT	-0.345	0.315	0.629
ZPOD	0.421	-0.245	0.337
ZSOD	0.41	0.281	0.03
ZMDA	0.369	-0.055	0.633