

Supplementary information

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Table S1. Multivariate ANOVA of effects of three cold storage factors on reproductive parameters of *Telenomus remus* parasitising fresh FAW eggs.

Biological parameters	Factors	df	F	P
Emergence rate (%)	A	3	48.47	<0.001
	B	3	335.71	<0.001
	C	3	101.53	<0.001
	A*B	9	13.62	<0.001
	A*C	9	1.76	<0.001
	B*C	9	13.88	<0.001
	A*B*C	27	4.04	<0.001
Number of adults produced	A	3	43.51	<0.001
	B	3	366.93	<0.001
	C	3	109.14	<0.001
	A*B	9	7.5	<0.001
	A*C	9	5.00	<0.001
	B*C	9	24.9	<0.001
	A*B*C	27	6.00	<0.001
Female proportion (%)	A	3	1.38	0.253
	B	3	81.78	<0.001
	C	3	16.76	<0.001
	A*B	9	2.36	0.017
	A*C	9	1.62	0.117
	B*C	9	16.06	<0.001
	A*B*C	27	3.62	<0.001

*A, developmental stage; B, storage duration; C, storage temperature

Table S2. Multivariate ANOVA of effects of two cold storage factors on hatching rate of *Spodoptera frugiperda*.

Biological parameters	Factors	df	<i>F</i>	<i>P</i>
FAW egg hatching rate (%)	A	3	21.70	<0.001
	B	3	32.24	<0.001
	A*B	9	4.22	<0.001

*A, storage duration; B, storage temperature

Table S3. Multivariate ANOVA of effects of two cold storage factors on reproductive parameters of *Telenomus remus* parasitizing stored FAW eggs.

Biological parameters	Factors	df	<i>F</i>	<i>P</i>
Emergence rate (%)	A	3	21.11	<0.001
	B	3	19.39	<0.001
	A*B	9	2.55	0.007
Number of adults produced	A	3	33.30	<0.001
	B	3	25.01	<0.001
	A*B	9	2.77	0.004
Female proportion (%)	A	3	28.16	<0.001
	B	3	8.47	<0.001
	A*B	9	3.96	0.017

*A, storage duration; B, storage temperature