Supplementary data

Figure S1 Environmental temperature and relative humidity of the cultivation location of the tested rice cultivars.

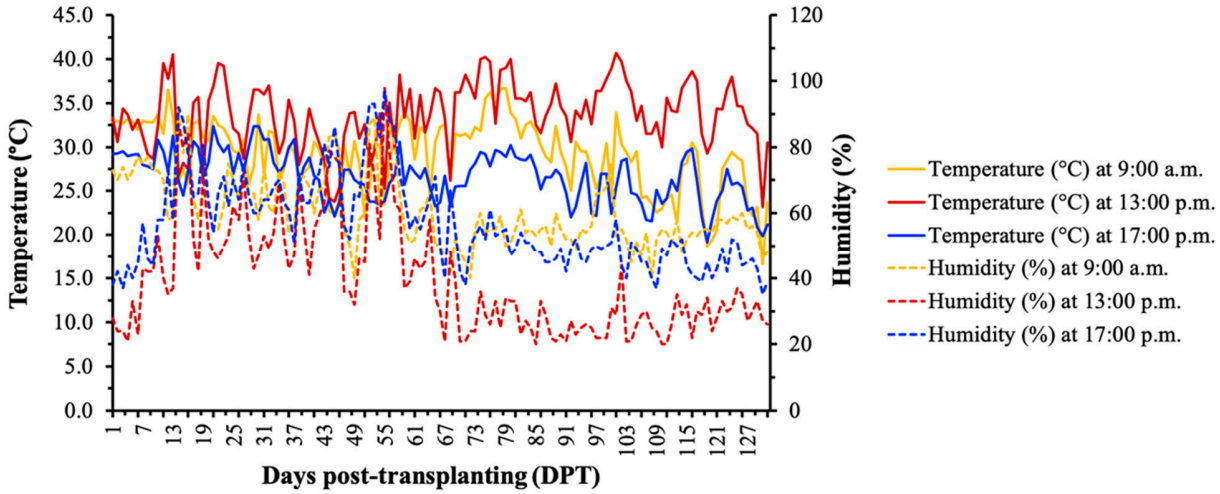

Figure S2 DSC thermogram displaying endosperm starch gelatinization properties of 4 Thai commercial rice cultivars.

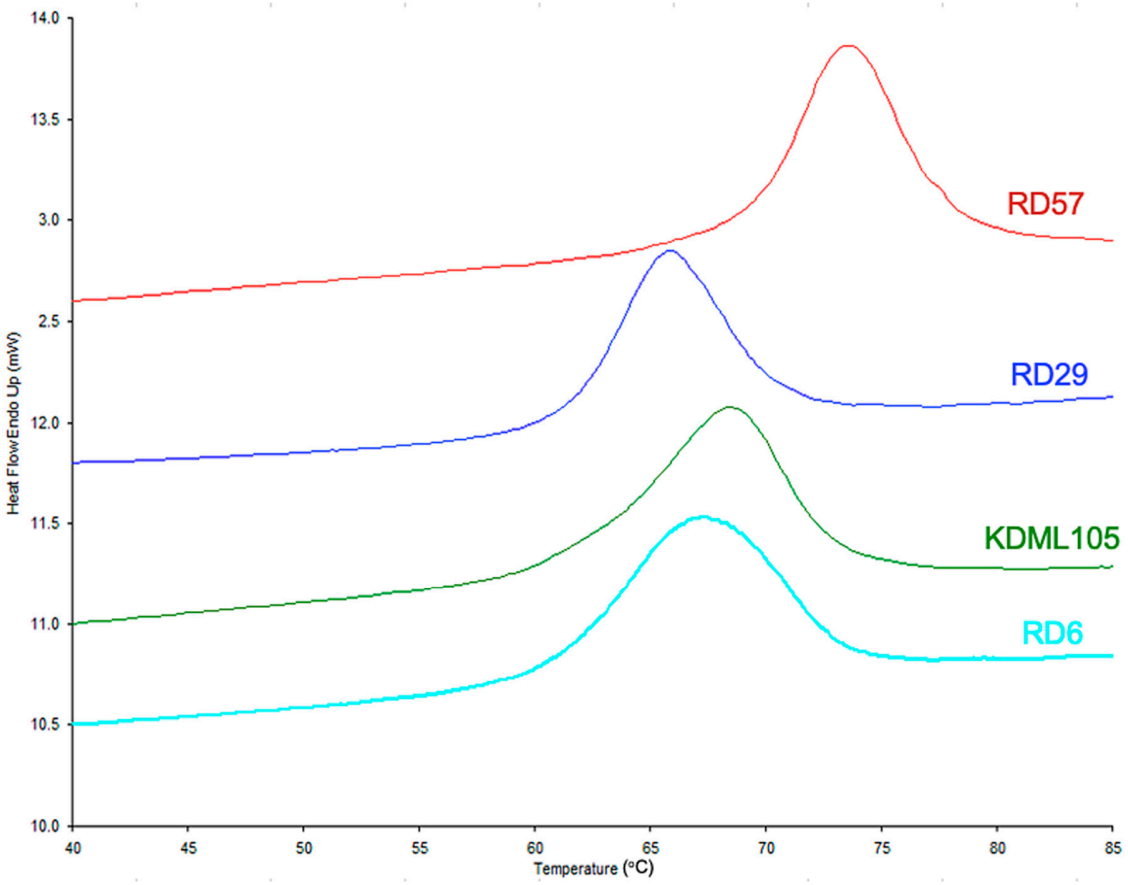

Figure S3 DSC thermogram displaying endosperm starch retrogradation properties of 4 Thai commercial rice cultivars.

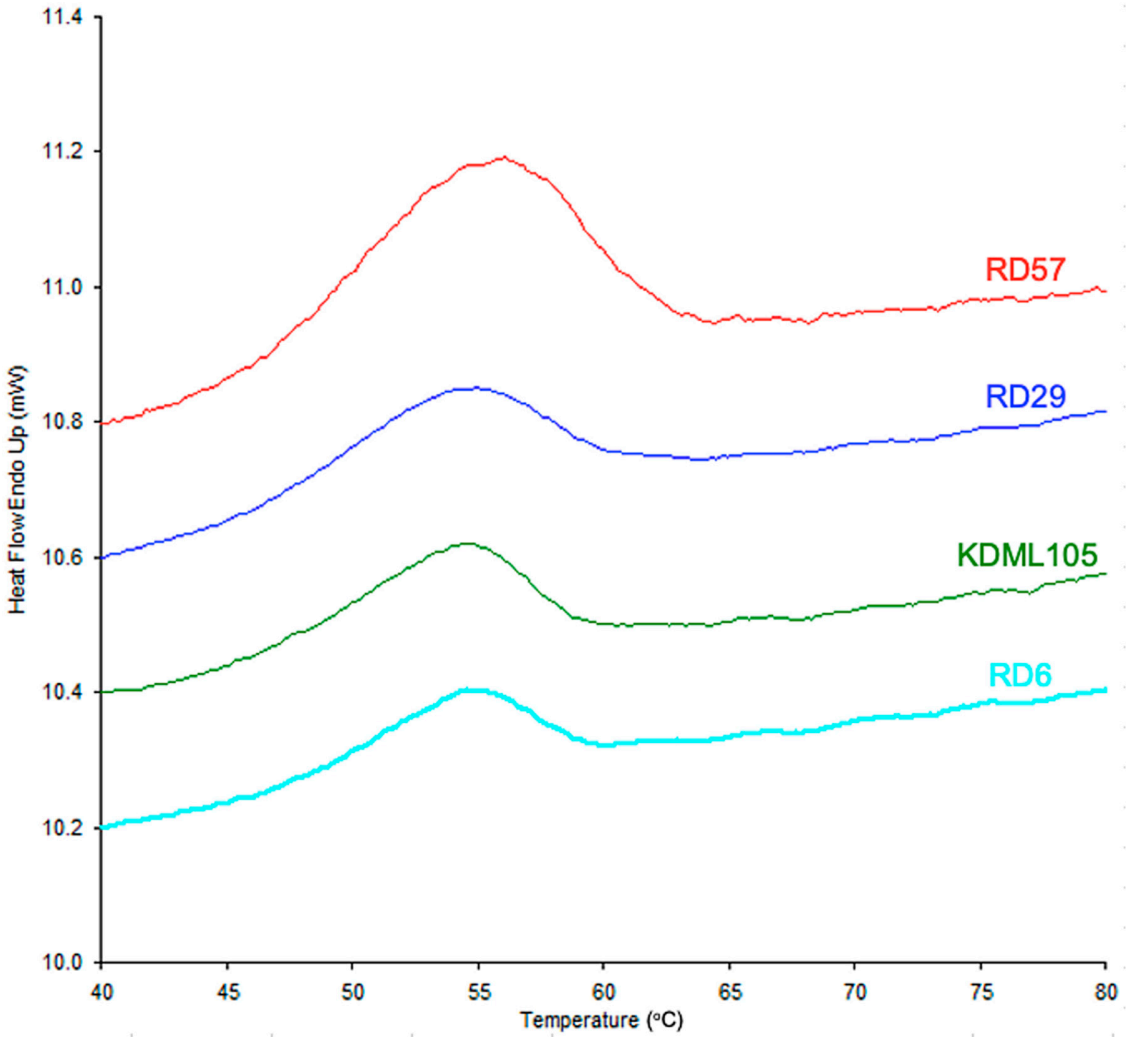

Table S1 The values of RVA parameters, amylose content, photosensitivity, and growth duration of 4 different groups of Thai certified rice starches.

Groups	Cultivars	RVA parameters			Amylose content (%)	Photosensitivity	Growth duration (Days)
		PT (°C)	PV (mPa.s)	SB (mPa.s)			
1	RD6	72.70±0.45^{e}	2269.33±81.06^{b}	270.67±8.98^{f}	2.08	✓	110-120
	KDML105	75.67±0.24^{cde}	3064.33±114.62^{a}	668.67±11.85^{ef}	14.38	✓	120
2	PTT1	76.47±0.33^{cd}	3447.67±74.38^{a}	675.67±52.41^{e}	14-18.42		104-126
	RD21	75.97±0.02^{cde}	3197.00±178.94^{a}	950.67±37.24^{de}	17-20		120-130
	PL80	73.50±0.48^{de}	3073.00±143.96^{a}	1159±73.23^{d}	17.3	✓	120
3	RD43	75.57±0.73^{cde}	3016.33±82.57^{a}	1183.67±56.00^{d}	16-18.82		95
	RD61	77.95±0.70^{bc}	1227.67±23.85^{d}	1214.00±3.79^{d}	26.82		87
	RD29	76.88±0.95^{cd}	1584.00±40.70^{cd}	1690.33±40.93^{bc}	26.6-29.4		103
4	RD37	83.98±0.81^{a}	2176.33±53.27^{b}	1336.67±160.06^{cd}	21.6		108-118
	RD41	81.45±1.28^{ab}	1642.33±53.27^{cd}	1765.33±167.69^{ab}	27.15-30		105
	RD57	82.37±0.78^{a}	1927.67±34.91^{b}	2115.33±68.13^{a}	27.33		110-120

Values are means ± SEM. Means within pasting temperature (PT), peak viscosity (PV), and setback (SB) columns with different superscripts are significantly different ($p \leq 0.05$), and the means in each column indicate statistically significant difference at $p \leq 0.05$ by Tukey's test (n = 3).