



**Figure S1.** Morphological characteristics of two *Andrographis paniculata* cultivars (RBR and TTT) grown in pots under greenhouse conditions.

**Table S1.** Andrographolide content of two cultivars on different light spectrum ratio treatments. On AP1, AP4, AP6 and Total AP per plant DW. Values are represented as mean  $\pm$  SE (n=4). Different letters indicate significant difference between planting densities at  $p < 0.05$ .

Cultivars	Light Treatment	Andrographolide content (mg/plant DW)			
		AP1	AP4	AP6	Total AP
RBR	White	125.36 $\pm$ 20.02abc	9.41 $\pm$ 0.92a	40.31 $\pm$ 4.33a	175.08 $\pm$ 24.49abc
	B10:G10R80	83.86 $\pm$ 10.18cd	9.31 $\pm$ 0.90a	32.58 $\pm$ 2.71ab	125.75 $\pm$ 12.83cd
	B20:G10:R70	52.53 $\pm$ 3.26d	4.58 $\pm$ 0.50b	21.18 $\pm$ 1.37b	78.29 $\pm$ 4.72d
	B30:G10:R60	126.27 $\pm$ 8.54abc	10.36 $\pm$ 0.85a	42.68 $\pm$ 6.34a	179.30 $\pm$ 9.70abc
	B40:G10:R50	125.15 $\pm$ 10.76abc	10.38 $\pm$ 1.47a	35.64 $\pm$ 8.91ab	171.17 $\pm$ 20.21abc
	B50:G10:R40	100.20 $\pm$ 15.51bc	7.73 $\pm$ 1.97ab	31.21 $\pm$ 4.68ab	139.14 $\pm$ 21.65bc
	B60:G10:R30	162.58 $\pm$ 14.25a	11.68 $\pm$ 2.69a	42.92 $\pm$ 1.61a	217.17 $\pm$ 17.87a
	B70:G10:R20	139.60 $\pm$ 21.19ab	9.60 $\pm$ 1.46a	47.14 $\pm$ 9.48a	196.34 $\pm$ 29.91ab
TTT	White	102.54 $\pm$ 7.70b	5.26 $\pm$ 0.48bc	32.36 $\pm$ 3.38bc	140.16 $\pm$ 11.48c
	B10:G10R80	106.57 $\pm$ 9.89b	7.04 $\pm$ 0.91b	37.45 $\pm$ 3.37b	151.05 $\pm$ 9.03bc
	B20:G10:R70	67.70 $\pm$ 5.21c	4.42 $\pm$ 0.35c	22.81 $\pm$ 1.25c	94.93 $\pm$ 6.64d
	B30:G10:R60	73.14 $\pm$ 3.39c	4.21 $\pm$ 0.24c	22.76 $\pm$ 1.50c	100.11 $\pm$ 4.86d
	B40:G10:R50	106.07 $\pm$ 5.97b	5.68 $\pm$ 0.51bc	35.43 $\pm$ 2.04bc	147.17 $\pm$ 7.95c
	B50:G10:R40	108.85 $\pm$ 10.58b	4.88 $\pm$ 0.25c	32.43 $\pm$ 4.90bc	146.16 $\pm$ 11.98c
	B60:G10:R30	165.39 $\pm$ 18.28a	8.84 $\pm$ 0.71a	56.37 $\pm$ 7.19a	230.69 $\pm$ 23.07a
	B70:G10:R20	124.98 $\pm$ 7.35b	6.84 $\pm$ 0.95b	53.82 $\pm$ 6.34a	185.63 $\pm$ 14.01b