

Appendix A Data of selenium, lutein and zeaxanthin for 200 accessions

Cultivar name	Selenium (ug/kg)	Lutein (ug/g)	Zeaxanthin (ug/g)
Longgu 7	75.23	2.47	5.92
Longgu 10	92.57	1.74	1.61
Jinsuigu 1	93.08	2.32	4.46
Longgu 8	97.18	1.42	1.73
Longgu 5	101.19	2.88	10.50
Longgu 3	104.65	3.68	11.48
Longgu 11	106.09	2.77	4.10
Longgu 9	110.75	3.30	8.66
Longgu 6	123.71	4.27	13.42
Longsu 2	98.39	2.29	2.65
Jigu 30	64.21	3.71	9.39
Jigu 26	65.17	3.84	13.86
Shuxiang 1	71.84	2.44	2.23
Chenggu 11	76.29	2.13	3.47
Jingu 1	78.83	3.87	13.20
Jigu 15	82.61	3.90	15.72
Jichuang 1	83.99	0.32	3.03
Henggu 9	86.25	4.34	12.36
Jigu 18	87.17	0.24	0.94
Jigu 17	87.63	0.55	0.19
Jigu 27	88.29	1.79	1.83
Jigu 28	88.91	3.85	7.12
Cang 344	89.45	3.77	10.24
Gufeng 2	89.60	3.87	12.67
Jixiang 1	90.39	3.42	12.13
Chenggu 12	90.55	3.98	9.53
Xiaoxiangmi	92.70	1.74	2.43
Cangu 3	93.07	4.14	12.45

Jigu 29	94.10	3.74	12.27
Jigu 31	95.54	3.34	10.03
Jigu 12	95.65	4.70	11.68
Badi 1	95.95	1.87	7.30
Jigu 22	99.20	3.20	7.46
Chengnong 2	101.92	0.99	1.55
Hongguzi	102.89	2.57	11.06
Jigu 2	104.01	2.54	5.32
Baogu 18	104.05	5.20	16.94
Heiguzi	104.82	3.01	4.64
Baimi 1	105.37	4.74	14.96
Jizhanggu 5	105.46	4.06	12.53
Jigu 19	105.78	4.00	8.99
Jigu 25	108.02	4.77	13.65
Jigu 24	108.08	4.77	15.44
Fu 12	108.32	3.50	7.98
Chenggu 9	109.55	4.14	10.09
Jigu 21	109.92	2.71	4.80
Bagu 214	110.09	4.47	12.95
Huangjingu	113.48	2.60	3.42
Baai 2	117.05	4.82	15.45
Yugu 15	69.17	4.30	12.53
Yugu 13	82.82	4.52	15.25
Yugu 11	87.69	4.88	12.61
Yugu 14	89.10	4.21	12.19
An 93-15	92.29	2.31	4.26
Yugu 6	93.76	3.39	10.43
Yugu 12	95.72	2.85	10.71
Zheng 10	96.64	4.06	9.71
Zhenggu 4	101.55	2.41	2.89

Yugu 9	103.91	0.37	2.30
Zheng 9188	106.60	3.52	12.01
Zhenggu 2	108.45	3.38	11.53
Zhenggu 4	111.84	0.68	1.29
Yugu 3	103.70	3.86	12.21
Yugu 7	105.43	0.73	0.14
Yugu 2	106.59	3.24	10.42
Yugu 1	112.04	4.56	12.24
<b>GS Yugu 5</b>	122.91	2.94	6.73
Nenxuan 15	75.53	3.88	7.64
Longgu 30	80.50	3.67	8.32
Longgu 25	82.22	2.37	3.46
Longgu 28	86.36	3.13	9.54
Nenxuan 16	87.61	2.58	2.87
Longgu 28	104.35	3.48	10.44
<b>07-7002</b>	104.39	2.47	3.13
Longgu 26	107.11	3.00	8.53
Longgu 27	117.87	3.56	7.35
Longgu 31	126.29	3.35	10.49
Nenxuan 11	57.45	1.81	2.41
Nenxuan 10	71.89	3.42	9.79
Nenxuan 12	102.09	2.99	1.92
Nenxuan 14	114.08	3.19	8.10
Nenxuan 13	126.31	1.89	2.11
Gonggu 68	71.50	3.32	11.34
Gonggu 70	74.70	2.31	7.48
Gonggu 67	75.94	3.13	9.36
Gongai 6	81.80	2.54	11.53
Baigu 6	82.67	0.13	1.59
Gonggu 69	83.60	2.57	8.87

Jiugu 15	84.21	2.73	10.37
Gonggu 74	85.36	2.03	2.70
Jiugu 11	86.03	2.69	7.02
Jiugu 14	87.10	1.66	5.68
Gonggu 31	88.80	3.52	5.70
Gonggu 63	89.22	2.12	3.39
Gonggu 71	90.85	2.24	4.40
Gonggu 66	92.11	3.07	9.54
<b>E496</b>	92.52	3.41	12.17
Gonggu 61	93.42	2.54	8.76
Gonggu 62	96.15	2.60	3.59
Gongai 5	98.81	3.64	10.96
Gongguxin 7	99.95	4.77	12.77
Gonggu 73	100.85	2.25	5.73
Gonggu 23	101.65	3.40	9.80
Gonggu 5	103.50	2.72	6.15
Gonggu 65	105.03	2.66	4.76
Baigu 7	107.00	2.69	10.24
Gonggu 72	109.43	3.60	10.83
Gongai 3	111.39	3.68	11.62
Gongai 2	112.63	0.62	1.93
Gonggu 5-1	114.28	3.07	8.94
Baigu 9	116.69	2.60	8.50
Jiugu 9	116.81	3.29	10.38
Gongai 4	117.50	2.88	9.90
Jiugu 13	123.75	3.62	10.40
Jiugu 8	130.98	2.78	8.69
Gonggu 60	152.83	3.30	11.43
Chaogu 13	77.59	2.57	6.84
Chaogu 15	83.01	3.07	9.06

Liaogu 1	83.88	2.09	9.90
Gufeng 1	89.78	1.84	7.87
Liaogu 3	91.33	2.56	8.37
Chenggu 8	105.64	0.18	0.69
Chaogu 12	107.88	3.41	11.60
Chaogu 14	112.77	3.19	10.09
Menghangu 9	68.28	2.82	9.92
Mengfenggu 1	74.55	3.41	10.13
Mengfenggu 7	76.08	4.09	12.63
Mengheigu 8	76.42	2.86	10.52
Neigu 4	80.73	2.45	9.53
Menggu 12	83.20	4.43	12.39
Huangjinmiao	90.58	3.75	11.10
Fenggu 12	93.13	2.34	5.04
Shanxi honggu	107.55	3.68	10.56
Chigu 6	62.00	1.95	3.87
Chigu 5	79.65	3.72	11.95
Chigu 8	82.23	3.60	10.96
Chigu 4	85.57	3.06	11.33
Chigu 9	101.74	2.23	3.95
Chigu 10	108.96	2.40	4.37
Yuan 07610	88.23	3.52	11.63
Lugu 8	96.85	2.97	5.85
Lugu 10	105.64	3.43	10.93
Lugu 7	106.48	3.80	11.31
Lugu 5	108.00	3.68	7.19
Jigu (济谷) 11	108.09	3.51	10.66
Jigu (济谷) 13	124.83	3.22	10.27
Jigu (济谷) 12	164.40	2.20	5.95
Lugu 9	94.13	2.73	9.94

Lugu 6	102.26	2.37	8.63
Datong 29	84.90	2.71	10.64
Saiwai xiangguzi	89.01	2.21	10.12
Jingu 28	89.43	2.06	4.94
Jingu 35	89.66	3.06	6.47
Jingu 13	91.83	2.20	4.07
Jingu 46	92.59	4.14	12.88
Jingu 34	92.82	4.36	14.28
Jingu 31	94.02	2.90	6.92
Jingu 40	94.23	4.44	12.44
Qingzhenzhu	95.34	3.20	11.09
Jingu 20	95.50	3.35	8.10
Datong 14	95.61	4.27	9.18
Jingu 48	97.35	3.87	13.44
Taixuan 8	97.80	2.87	6.22
Taixuan 1	97.89	4.56	12.42
Jingu 33	97.97	4.08	11.30
Jingu 26	99.39	2.12	5.67
Datong 32	101.86	2.49	5.10
Jingu 18	101.92	3.13	11.26
Jingu 10	103.36	2.39	7.86
Jingu 42	103.47	3.28	13.79
Changnong 40	103.52	2.92	10.68
Jingu 27	103.56	3.01	7.24
Jingu 24	103.95	0.95	4.20
Datong 30	105.32	2.47	6.60
Jingu 30	105.95	3.19	9.61
Taixuan 10	107.51	1.48	3.70
Jingu 25	108.81	3.21	10.61
Fenxuan 5	109.83	3.07	10.37

Changza 2	112.57	3.80	11.48
Jingu 16	112.74	2.88	10.94
Fenxuan 8	114.85	2.08	3.82
Jingu 11	115.36	2.64	9.82
Lvgu 2	115.38	2.15	8.49
Jingu 45	116.59	2.00	13.33
Jingu 23	118.91	3.82	11.30
Jingu 36	120.43	3.52	12.92
Jingu 14	120.60	2.60	5.97
Jingu 22	122.39	4.85	11.11
Changgu 4	123.04	3.98	12.45
Jingu 17	125.72	3.37	12.42
Jingu 21	126.65	3.30	5.94
Jingu 41	126.88	2.38	4.87
Changgu 2	131.82	2.54	9.06
Jingu 29	134.72	3.64	11.54
Jingu 6	140.61	3.48	11.97
Datong 27	142.89	3.39	10.50
Xiagu 2	147.79	2.68	9.99
Jingu 39	179.01	3.33	11.39
Yangu 11	104.20	3.43	11.10
Yangu 12	104.86	1.62	2.53

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