

Some reference standard species recommended for plant genome size estimation

Plant taxon	2C DNA content (pg)	Reference
<i>Agave americana</i> L.	15.90	Doležel <i>et al.</i> (2007)
<i>Arabidopsis thaliana</i> L. Heynh ecotypes Columbia or Bensheim	0.33	Marie and Brown (1993)
<i>Allium cepa</i> L. 'Ailsa Craig'	33.54	Bennett and Smith (1991)
<i>Allium cepa</i> L. 'Alice'	34.84	Doležel <i>et al.</i> (1998)
<i>Artemisia arborescens</i> L.	11.43	Garcia <i>et al.</i> (2006)
<i>Glycine max</i> Merr. 'Polanka'	2.50	Doležel <i>et al.</i> (1994)
<i>Hordeum vulgare</i> L. 'Sultan'	9.81	Garnatje <i>et al.</i> (2004)
<i>Medicago sativa</i> L. nothosubsp. <i>varia</i> (Martyn) Arcang. 'Rambler A2'	3.47	Marie and Brown (1993)
<i>Medicago truncatula</i> Gaertn. 'R108-1'	0.98	Marie and Brown (1993)
<i>Oryza sativa</i> L. 'IR-36'	1.00	Bennett and Smith (1991)
<i>Petroselinum crispum</i> (Mill.) Hill 'Champion Moss Curled'	4.44	Obermayer <i>et al.</i> (2002)
<i>Petunia hybrida</i> Vilm. 'PxPc6'	2.85	Marie and Brown (1993)
<i>Pisum sativum</i> L. 'Ctirad'	9.08	Doležel <i>et al.</i> (1998)
<i>Pisum sativum</i> L. 'Express Long'	8.37	Marie and Brown (1993)
<i>Pisum sativum</i> L. 'Minerva Maple'	9.72	Bennett and Smith (1991)
<i>Raphanus sativus</i> L. 'Saxa'	1.10	Doležel <i>et al.</i> (1992)
<i>Salvia brachyodon</i> Vandas	0.95	Siljak-Yakovlev <i>et al.</i> (2010)
<i>Secale cereale</i> L. 'Daňkovské'	16.18	Doležel <i>et al.</i> (1998)
<i>Solanum lycopersicum</i> L. 'Montfavet 63/5'	1.99	Lepers-Andrzejewski <i>et al.</i> (2011)
<i>Solanum lycopersicum</i> L. 'Stupické polní tyčkové rané'	1.96	Doležel <i>et al.</i> (1992)
<i>Trifolium repens</i> L.	2.07	Doležel <i>et al.</i> (2007)
<i>Triticum aestivum</i> L. 'Chinese Spring' or 'Triple Dirk'	30.9	Marie and Brown (1993)
<i>Vicia faba</i> L. subsp. <i>faba</i> var. <i>equina</i> Pers. 'Inovec'	26.9	Doležel <i>et al.</i> (1992)
<i>Vigna radiata</i> (L.) R. Wilszec 'Berken'	2.40	Bennett and Smith (1991)
<i>Zea mays</i> L. 'CE-777'	5.42	Lysák and Doležel (1998)

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Siljak-Yakovlev S, Pustahija F, Solic EM, Bogunic F, Muratovic E, Basic N, Catrice O, Brown SC. 2010. Towards a genome size and chromosome number database of Balkan flora: C-values in 343 taxa with novel values for 242. *Advanced Science Letters*, 3: 190–213

Internal calibration standards used to estimate genome size by flow cytometry for Asteraceae species
(listed in decreasing frequency of usage).

Taxon	Range of assigned 2C-values (pg)
<i>Pisum sativum</i> L.	8.11-9.73
<i>Petunia hybrida</i> Vilm.	2.85-3.35
<i>Allium cepa</i> L.	33.50-34.85
<i>Hordeum vulgare</i> L.	9.81-9.73
<i>Solanum lycopersicum</i> L.	1.96-2.01
<i>Medicago truncatula</i> Gaertn.	0.95
<i>Agave americana</i> L.	15.90
<i>Bellis perennis</i> L.*	2.30
<i>Lactuca sativa</i> L.*	5.50
<i>Microseris douglasii</i> Sch. Bip.*	-
<i>Secale cereale</i> L.	15.58-16.80
<i>Hieracium pellatianum</i> Arv.-Touv.*	-
<i>Triticum aestivum</i> L.	30.90-34.85
<i>Glycine max</i> (L.) Merr.	2.27-2.70
<i>Gallus domesticus</i> L. (chicken erythrocytes)	2.33-2.50
<i>Leucanthemum ircutianum</i> DC.*	20.28
<i>Xenopus laevis</i> Daudin	6.30
<i>Zea mays</i> L.	5.00-5.47
<i>Coreopsis basalis</i> (A. Dietr.) S.F. Blake*	-
<i>Vicia faba</i> L.	25.95-26.90
<i>Vigna radiata</i> (L.) R. Wilczek	1.06
<i>Agave stricta</i> Salm.-Dyck	7.80
<i>Artemisia abrotanum</i> L.*	11.41
<i>Artemisia annua</i> L.*	3.50

<i>Artemisia arborescens</i> L.*	11.43
<i>Clivia</i> sp.	39.00
<i>Senecio vulgaris</i> L.*	5.88

(*) Internal standards belonging to family Asteraceae

Reference

Garnatje T, Canela MÁ, Garcia S, Hidalgo O, Pellicer J, Sánchez-Jiménez I, Siljak-Yakovlev S, Viales D, Vallès J. 2011. GSAD: a genome size in the Asteraceae database. *Cytometry, Part A* 79A: 401–404.