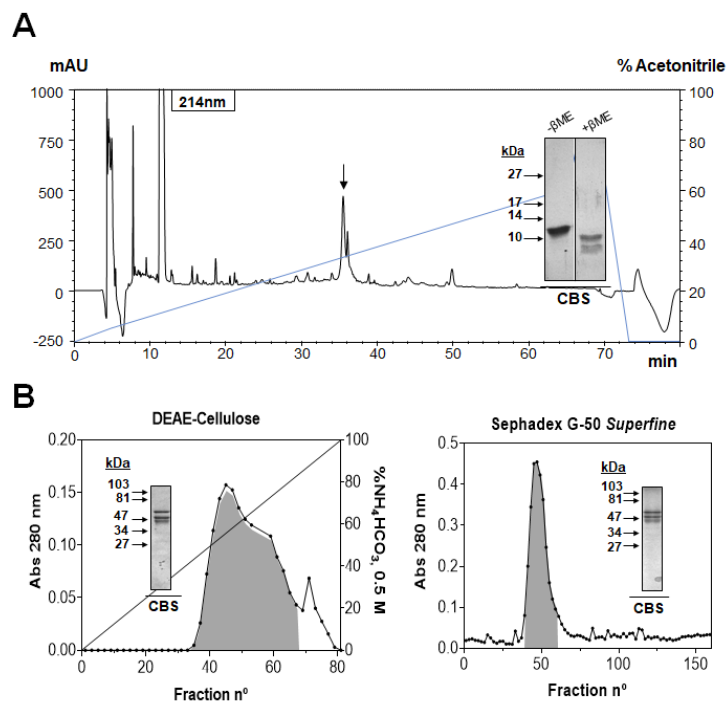


Supplementary material

Figure 1. Isolation of flaxseed 2S albumin and 11S globulin.



(A) Last chromatographic step, RP-HPLC, for the isolation of the flaxseed 2S albumin.
 (B) Two chromatographic steps for the flaxseed 11S globulin isolation. Inserts show the CBS of both proteins.

Figure 2 Supplementary. Sequence alignment of Lin u 1 with 2S albumins from several plant sources.

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          *           20           *           40           *           60           *
Lin: svr---TTVIIDEETNgrrgggggggGQQSQCEQIQQDFLRSQQRMWEKVORG----GRSHYnqgr : 62
Sin: pagpf---RIPKCRKEFQQAQHLRAGQQQLHKQAMQS-----Gsgpswtldd : 44
Ses: ttYTTVTVTTAIDDEAN-----QSQQCRCQLGRQFRSQRVLSQ-----GRSPYGG : 48
Ara: r-----QQWE-----LQDRRRCQSLERANLRPCQOHLMOKIQRdedSYE-RDPYSP : 46
Ana: siyraivE-----VEEDS-----GREQSCQRQFEQQRFRNCRVVKQEVORG---GR----- : 45
Cor: --FRTTITVDVDEDiVNQGG-----RRGESCREQAGROQNLNQCQRMVRRQSQSYG--SYDGS : 54
Pin: he-----D-----IVMDG-----DQVVQQGRSCDPQRLSAQRDLROR----- : 33
          C           6

          80           *           100           *           120           *           140
Lin: -----RGGGEQSYFDSCDDLKQL--STGCTCRGLERAGMROEIQ---Q----- : 104
Sin: efdFEDDMENP--QGPPQRPLLQCCNHLHQE--EPIQVCPILKQASKAVKQVVRQLGQ----- : 101
Ses: --EEDVLEMS--TGNQSESLRDCCQIIGNV--DEFRCCEAIRGATRQQQEGGYQEG----- : 102
Ara: --SQDpyspspydRRGAGSSCHOERCCNLENEfenNORQVCEALQIILENQSDRLQ----- : 100
Ana: -----YNQROBSLRECCQHLQEV--DRRRCQNLQGMVRLQDQEQE---I----- : 85
Cor: -----NQOQCELECCQDPRM--DEFRCCEGLRQAVMCOQGGMR : 93
Pin: -----RRECPSERCCEFLQRM--SPHRCRAIRERALDQSQSYDsstdsdsqdgaplnqrr : 86
          CC L           C C 6

          *           160           *           180           *           200           *
Lin: -----QCCGq-EVQRWIGCA-KETAKDLBGOCRT-QFSQ-QQFQG-----QQQSA--- : 145
Sin: -----QCCGpHLQHVISRT-YETATHLKVCNLT-RQVSVCPFKKTPmgps----- : 145
Ses: -----SCQV-YERARDLERRCNV-RBQQ-QQFRvifv----- : 132
Ara: -----KERC-----QCCGfKRELRNLBQCCGIRAPQR-DLdvesgrrrrippiltgsrsRRHqspyg : 157
Ana: -----KKEE-----VREL-YETASELERICSIL-SFSQGCQFQSSy----- : 118
Cor: -----KEE-----MRQV-METARDLBNCRIL-SEQR-CEIRSArf----- : 125
Pin: rrrgegrERE-----ESEA-VEREELNRCNLT-RESP-RRCDI-----RRHSR--- : 127
          g 2           a LP C           c

          220           *           240
Lin: -----WF----- : 147
Sin: ----- : -
Ses: ----- : -
Ara: nrrysamcllpraadgdgWFpsvavdcsg : 186
Ana: ----- : -
Cor: ----- : -
Pin: -----Ysiiggsd--- : 135

```

%I	%S	Lin u 1	Sin a 1	Ses i 1	Ara h 2	Ana o 3	Cor a 14	Pin p 1	
		100	0	34	37	29	48	45	31
		19	100	0	38	24	41	33	23
		25	20	100	0	27	46	46	28
		16	10	16	100	0	25	28	20
		24	19	29	12	100	0	58	34
		26	18	32	15	36	100	0	31
		13	11	15	12	18	16	100	0

Signal peptides from each protein, determined with online program SignalP, were removed. Table under alignment shows percentages of identity (%I, dark grey) and similarity (%S, light grey) between the different proteins. Nomenclature: Lin, conlinin; Sin, Sin a 1; Ses, Ses i 1; Ara, Ara h 2; Ana, Ana o 3; Cor, Cor a 14; Pin, Pin p 1.