Supplementary material

Table S1. Summary of anatomical traits measured in leaves of the studied Asparagaceae species, including tissue proportions and cell wall characteristics. All abbreviations are defined within the table.

Species	Sample	Ce	He	Li	Ref
A. americana	L	68.4	15.7	4.9	[1]
	St	65	32	3	[2]
	L	50	22	13	[3]
	L, St	-	-	8.2	[4]
	F	55.03	34.08	20.69	[5]
A. angustifolia	F	67	25.2	6.3	[3]
	F	64	25	6.5	[6]
A. fourcroydes	L	77.6	5 -7	13.1	[7]
	St	17.72	17.5	7.32	[8]
A. lechuguilla	St	-	-	9.07	[9]
	L	46-48	30	11	[10]
	L	79.8	3-6	15.3	[7]
	F	48.94	-	8.48	[11]
A. salmiana	B	47.3	12.8	4.9	[12]
	L, St	-	-	9.8	[4]
A. sisalana	-	43	32	15	[13]
	F	49.43	-	21.1	[14]
	F	41.9	-	7.2	[15]
	L, St	40 and 51	-	-	[16]
	B	56-69	-	-	[17]
	B	40.94	-	-	[18]
A. tequilana	B	42	18.5	14	[19]
	B	-	-	-	[20]
	B	44.5	20.1	25.3	[21]
	L	24.7-33.5	10.7-15.2	15.6-19.5	[22]
	L	47	16	9	[23]
	L, St	-	-	11.9	[4]
Furcraea foetida	F	68.35	11.46	12.32	[24]
Yucca aloifolia	L	52.5	20.5	20	[25]
Yucca gloriosa	F	66.4	17.5	6.7	[26]
A. angustifolia, A. lechuguilla, A. salmiana, A. tequilana	L	33.23-44.25	2.57-3.47	2.11-2.86	[27]
A. salmiana, A. americana, A. tequilana	L, St	39.7-45		7.3-11.9	[28]

Ce: cellulose, He: hemicellulose, Li: lignin, Ref: references. *B: Bagasse, F: Fiber, L: Leaf, St: Stem. Data were compiled from the literature to provide contextual comparison with the experimental results obtained in the present study.

Table S2. Collection number of the seven Asparagaceae species from the Botanical Garden of UNAM.

Species	Collection number*
A. convallis Trel.	AGM7308
A. salmiana Otto ex. Salm-Dyck	TT1086
A. striata Zucc.	AGM7860
D. acrotrichum Zucc.	AGM7369
N. excelsa García-Mend. & E.Solano	TT1088
Y. filifera Chabaud	AGM7221
Y. periculosa Baker	AGM6332

*The collection number corresponds to the material reserved in the MEXU herbarium

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