Yield of thioacidolysis-released monomeres in WT, *Atcad cd* and complemented lines.

Experiment	Sample	Thioacidolysis monomers from *β*-O-4 linked H, G and S conventional lignin units [a]				Thioacidolysis indene monomers from C6C3 aldehydes linked at Cβ by *β*-O-4 bonds [a]	
		H	G	S	S/G	G indene	S indene
Experiment 1	*WT1*	0.55 (0.01)	95.2 (0.16)	32.2 (0.01)	0.34 (0.00)	0.09 (0.01)	0.07 (0.00)
	WT2	0.57 (0.02)	84.4 (0.02)	30.0 (0.06)	0.36 (0.00)	0.02 (0.01)	0.06 (0.01)
	Atcad cd 1	tr	3.41 (0.07)	0.30 (0.02)	0.09 (0.00)	1.74 (0.17)	1.41 (0.10)
	Atcad cd 2	tr	3.48 (0.20)	0.31 (0.01)	0.09 (0.00)	1.47 (0.07)	1.35 (0.06)
	ChimPdCAD 1	0.55 (0.00)	100.5 (4.8)	37.3 (1.8)	0.37 (0.00)	0.08 (0.01)	0.43 (0.04)
	ChimPdCAD 2	0.60 (0.02)	130.3 (3.0)	53.2 (2.5)	0.41 (0.01)	0.13 (0.00)	0.47 (0.02)
	ChimAtCAD D 1	0.42 (0.00)	77.5 (1.0)	28.7 (0.2)	0.37 (0.00)	0.10 (0.01)	0.47 (0.01)
	ChimAtCAD D 2	0.42 (0.03)	65.1 (2.4)	23.6 (0.6)	0.36 (0.00)	0.10 (0.04)	0.21 (0.00)
	ChimAtCAD C 1	0.18 (0.02)	80.6 (7.0)	21.4 (2.0)	0.27 (0.00)	0.64 (0.04)	1.95 (0.22)
	ChimAtCAD C 2	0.29 (0.01)	110.3 (3.3)	31.8 (0.9)	0.29 (0.00)	0.30 (0.3)	1.32 (0.24)
	ChimPaCAD 1	0.37 (0.03)	83.7 (0.03)	17.6 (0.4)	0.21 (0.00)	0.20 (0.03)	1.45 (0.08)
	ChimPaCAD 2	0.73 (0.03)	105.2 (1.7)	23.1 (0.5)	0.22 (0.00)	0.32 (0.01)	2.00 (0.06)
Experiment 2	*WT1*	1 (0.01)	152.7 (3.5)	53.1 (0.7)	0.32 (0.01)	0.06 (0.01)	0.08 (0.00)
	WT2	1.1 (0.01)	135.3 (6.6)	49.1 (4.4)	0.36 (0.01)	0.06 (0.02)	0.08 (0.04)
	Atcad cd 1	0.2 (0.1)	11.7 (1.8)	0.6 (0.0)	0.05 (0.01)	4.5 (0.8)	3.3 (0.7)
	Atcad cd 2	0.1 (0.1)	11.2 (0.3)	0.7 (0.10	0.06 (0.00)	3.7 (0.01)	2.6 (0.6)
	ChimPttSAD1 1	0.22 (0.01)	29.9 (0.63)	9.6 (0.03)	0.32 (0.01)	2.32 (0.10)	2.45 (0.12)
	ChimPttSAD1 2	0.17 (0.00)	27.7 (0.8)	9.4 (0.4)	0.34 (0.00)	2.82 (0.06)	3.02 (0.03)

[a] Yield in main lignin-derived thioacidolysis monomers (expressed in µmoles per gram of Klason lignin) recovered from conventional H, G or S *β*-O-4 linked lignin units or from coniferaldehyde or sinapaldehyde linked at C*β* by *β*-O-4 bonds. SD from 2 repetitions are in bracket.