

**Table S1. Microtubule types assembled at 45  $\mu\text{M}$  tubulin, 90  $\mu\text{M}$  tubulin and 45  $\mu\text{M}$  tubulin with 1.5  $\mu\text{M}$  EB1.**

	13 (%)	12 (%)	13(s) (%)	14 (%)	15 (%)	$F_{\text{trans}}$ ( $\mu\text{m}^{-1}$ )	Total MT length ( $\mu\text{m}$ )
45 $\mu\text{M}$ Tub El.	74.94	15.16	0.00	9.90	0.00	0.032	344.5
45 $\mu\text{M}$ Tub Pl.	75.42	8.22	0.00	15.71	0.65	0.015	516.4
90 $\mu\text{M}$ Tub El.	73.37	3.62	6.71	16.11	0.19	0.149	696.3
90 $\mu\text{M}$ Tub Ov.	83.53	7.09	0.97	8.41	0.00	0.071	1017.9
90 $\mu\text{M}$ Tub Pl.	80.71	3.66	0.33	14.97	0.33	0.050	829.3
45 $\mu\text{M}$ Tub, 1.5 $\mu\text{M}$ EB1 El.	93.85	0.27	0.36	5.45	0.07	0.046	673.4
45 $\mu\text{M}$ Tub, 1.5 $\mu\text{M}$ EB1 Ov.	92.07	0.43	0.27	7.23	0.00	0.036	638.4
45 $\mu\text{M}$ Tub, 1.5 $\mu\text{M}$ EB1 Pl.	84.67	0.27	0.12	14.94	0.00	0.014	1035.5

El., elongation;  $F_{\text{trans}}$ , transition frequency; Ov., overshoot; Pl., plateau; MT, microtubule; 13(s), skewed 13-protofilament microtubule.