

Table 1: Experimental results AF488 data. τ_D in μs . For 1 species fit, $N = N(FCS) * T1$. For 2 species fit, $N^{sp} = A^{sp} * (N(FCS) * T1)$ and τ_D is sorted in fast and slow. If $A^{sp} = 100\%$, only display the corresponding τ_D and N values. 2 species fit results of AF488 in solution has no biophysical relevance and is only shown for completion

	artifact	af488		af488+luvs	
type of processing	fit				
no correction	1	$\tau_D = 39.7$	$N = 14.3$	$\tau_D = 7355.0$	$N = 4.7$
	2	$\tau_D^{fast} = 9.5$ $\tau_D^{slow} = 69.8$	$N^{fast} = 4.9$ $N^{slow} = 8.6$	$\tau_D^{fast} = 78.3$ $\tau_D^{slow} = 11944.6$	$N^{fast} = 0.7$ $N^{slow} = 3.5$
ff67b	1	$\tau_D = 39.8$	$N = 14.3$	$\tau_D = 94.0$	$N = 22.4$
	2	$\tau_D^{fast} = 9.9$ $\tau_D^{slow} = 71.7$	$N^{fast} = 5.0$ $N^{slow} = 8.4$	$\tau_D^{fast} = 41.8$ $\tau_D^{slow} = 20282.4$	$N^{fast} = 13.1$ $N^{slow} = 5.2$
34766	1	$\tau_D = 35.1$	$N = 14.7$	$\tau_D = 62.5$	$N = 23.2$
	2	$\tau_D^{fast} = 1.4$ $\tau_D^{slow} = 42.0$	$N^{fast} = 2.4$ $N^{slow} = 10.7$	$\tau_D^{fast} = 38.9$ $\tau_D^{slow} = 24434.3$	$N^{fast} = 15.8$ $N^{slow} = 4.1$
714af	1	$\tau_D = 39.8$	$N = 14.3$	$\tau_D = 104.2$	$N = 22.3$
	2	$\tau_D^{fast} = 10.0$ $\tau_D^{slow} = 71.9$	$N^{fast} = 5.1$ $N^{slow} = 8.4$	$\tau_D^{fast} = 41.8$ $\tau_D^{slow} = 21435.4$	$N^{fast} = 12.3$ $N^{slow} = 5.5$
34a6d	1	$\tau_D = 39.7$	$N = 14.3$	$\tau_D = 78.9$	$N = 22.5$
	2	$\tau_D^{fast} = 9.4$ $\tau_D^{slow} = 69.6$	$N^{fast} = 4.8$ $N^{slow} = 8.6$	$\tau_D^{fast} = 41.9$ $\tau_D^{slow} = 22526.1$	$N^{fast} = 14.2$ $N^{slow} = 4.6$
484af	1	$\tau_D = 39.8$	$N = 14.3$	$\tau_D = 91.2$	$N = 22.5$
	2	$\tau_D^{fast} = 10.1$ $\tau_D^{slow} = 72.2$	$N^{fast} = 5.1$ $N^{slow} = 8.4$	$\tau_D^{fast} = 41.2$ $\tau_D^{slow} = 23742.5$	$N^{fast} = 12.8$ $N^{slow} = 5.2$
0cd20	1	$\tau_D = 39.6$	$N = 14.3$	$\tau_D = 71.3$	$N = 21.7$
	2	$\tau_D^{fast} = 8.9$ $\tau_D^{slow} = 67.5$	$N^{fast} = 4.6$ $N^{slow} = 8.8$	$\tau_D^{fast} = 38.8$ $\tau_D^{slow} = 5823.0$	$N^{fast} = 15.5$ $N^{slow} = 3.9$
fe81d	1	$\tau_D = 39.8$	$N = 14.3$	$\tau_D = 90.4$	$N = 22.3$
	2	$\tau_D^{fast} = 10.0$ $\tau_D^{slow} = 71.8$	$N^{fast} = 5.0$ $N^{slow} = 8.4$	$\tau_D^{fast} = 42.0$ $\tau_D^{slow} = 19906.1$	$N^{fast} = 13.3$ $N^{slow} = 5.0$
19e3e	1	$\tau_D = 39.6$	$N = 14.3$	$\tau_D = 79.8$	$N = 22.4$
	2	$\tau_D^{fast} = 9.2$ $\tau_D^{slow} = 68.9$	$N^{fast} = 4.8$ $N^{slow} = 8.7$	$\tau_D^{fast} = 41.7$ $\tau_D^{slow} = 27489.8$	$N^{fast} = 13.6$ $N^{slow} = 4.7$
c1204	1	$\tau_D = 29.2$	$N = 15.2$	$\tau_D = 51.4$	$N = 23.8$
	2	$\tau_D^{fast} = 0.1$ $\tau_D^{slow} = 31.4$	$N^{fast} = 3.9$ $N^{slow} = 5.0$	$\tau_D^{fast} = 35.5$ $\tau_D^{slow} = 39055.9$	$N^{fast} = 16.4$ $N^{slow} = 3.9$