

Supporting Information

Photophysical Properties of the Excited States of Bacteriochlorophyll *f* in Solvents and in Chlorosomes

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Sample ID	Analyte Name	Intensity (Corrected for blank)	Relative Standard Deviation (Intensity based)	Reported Conc (mg/L)	Dilution Factor	Digested Sample Conc (mg/L)	Digested Sample Volume (mL)	Total Mass of Mg(mg)	Original Sample Volume (mL)	Concentration in the Original Sample (mg/L)
HPLC Solvent	Mg	245959	0.183	0.03068	15	0.46	0.5	0.0002	1	0.23
Bchl f Analyte	Mg	551832	0.232	0.06960	15	1.04	0.5	0.0005	1	0.52

* All external calibration standards of 1ug/L, 10ug/L, 50ug/L, 100ug/L, 200ug/L, and measurement RSDs were less than 5% for all standards and samples

** Sample preparation involved adding 200uL of concentrated Aquaregia (1:3 of HNO3 and HCL) to the sample vials and allowing them to react for 24hours. As the digestion completed until solutions were clear and no particle settling occurred. The completely digested samples were diluted upto 0.5ml and again diluted by a factor of 15 before analysis by ICP-MS.

Table S1: Determination of Mg concentration in the BChl f sample and in pure HPLC eluent

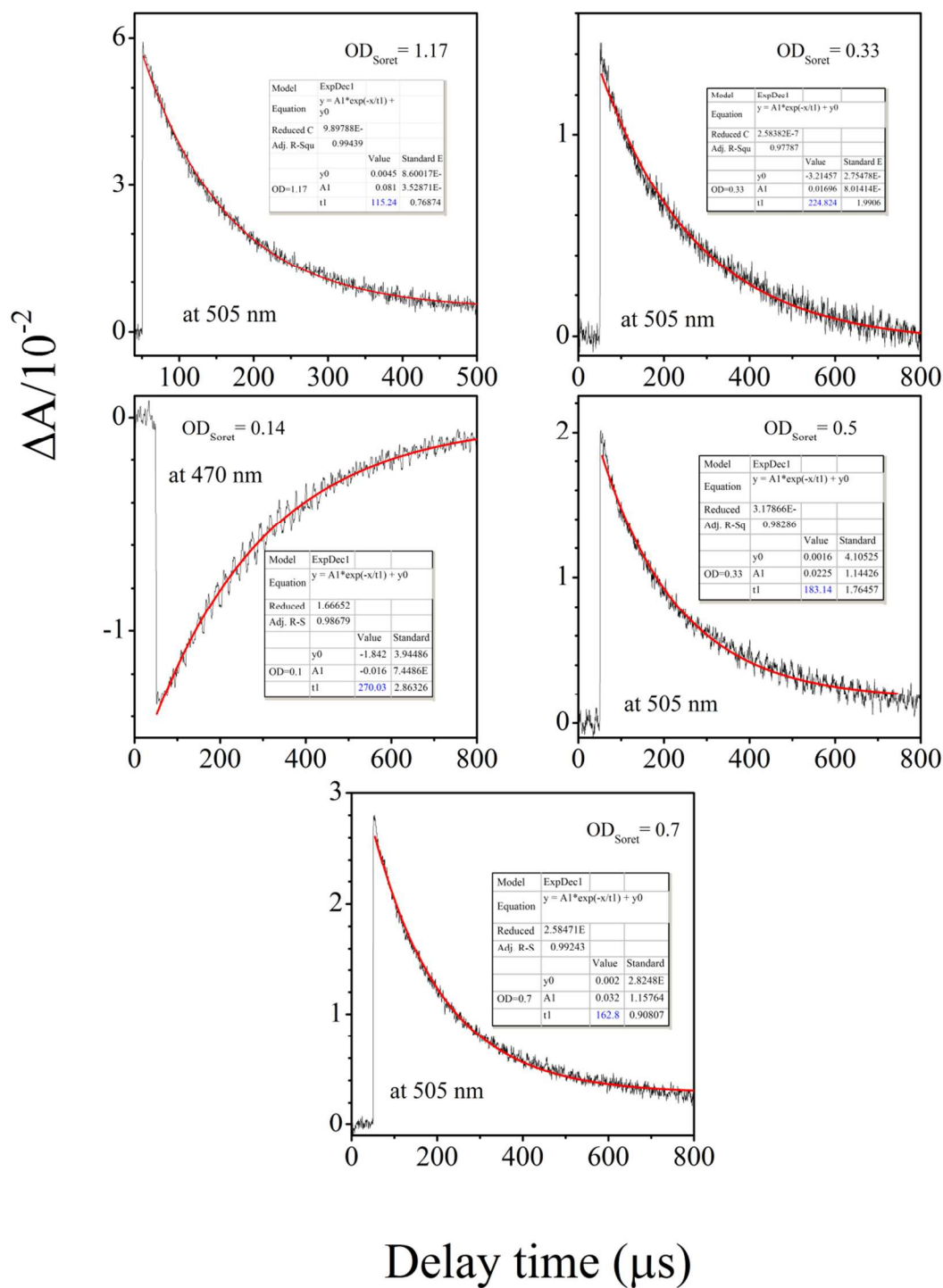


Figure S1: The kinetic traces of decay of $T_1 \rightarrow T_n$ band or Soret bleaching taken for different concentrations of BChl *f* with corresponding fits done according to mono-exponential decay.