

Table 3. Spectroscopic properties and millimolar extinction coefficients of BChls. The Mg-bacteriochlorins, BChls *a*, *b* and *g* are grouped together as are the Mg-chlorins, BChls *c*, *d* and *e*

BChl	Solvent	Millimolar Extinction Coefficients					Soret:Q _y	Reference	
		Peak wavelengths in nm; [ε _{mM}]							
A: Mg-Bacteriochlorin type pigments									
BChl <i>a</i>	Diethylether	358.5 [73.4]	391.5 [48.1]	530 [2.7]	577 [20.9]	697 [9.1]	773 [91.2]	0.80	Smith and Benitez (1955)
		358 [85.4]	391 [52.8]		575 [22.1]	697 [11.5]	772 [96.0]	0.89	Weigl (1953)
		357 [73.4]	392 [47.1]		573 [22.0]		770 [96.0]	0.76	Sauer et al., (1966)
	Acetone	358 [65.7]			576.5 [19.4]		770 [69.2]	0.94	Sauer et al., (1966)
	Methanol						772 [60.0]		Cohen-Bazire et al., (1966)
	Ethanol	365.5 [58.5]		607 [15.2]		773 [62.0]	0.94	Sauer et al., (1966)	
BChl <i>b</i>	Diethylether	368 [81]	408 [78]		578 [25]	676 [18]	794 [100]	0.81	Steiner (1981)
	Acetone	368 [94]	407 [82]		580 [27]		794 [106]	0.94	Scheer and Steiner (1985) ^a Baumgarten (1970)
BChl <i>g</i>	Acetone	364.8	404.8		566.4		761.6 [76]		van de Meent et al., (1991)
B. Mg-Chlorin type pigments									
BChl <i>c</i> (809) ^b	Diethylether	412 [72.6]	432 [142]			622 [15.9]	660 [91.0]	1.56	Stanier and Smith (1960)
	Acetone	413 [71.8]	433 [115.5]			625 [13.7]	662.5 [74.9]	1.54	Stanier and Smith (1960)
	Methanol	419 [69.7]	435 [79.1]			620 [14.6]	670 [69.6]	1.14	Stanier and Smith (1960)
BChl <i>d</i> (792) ^b	Diethylether	406 [69]	425 [115.6]	530 [2.7]	575 [6.8]	612 [12.5]	650 [89.9]	1.28	Stanier and Smith (1960)
	Acetone	406 [69.6]	427 [99.7]	530 [3.1]	575 [7.3]	612.5 [13.0]	654 [77.6]	1.28	Stanier and Smith (1960)
	Methanol	411 [60.6]	427 [66.1]			612.5 [14.3]	659 [65.2]	1.01	Stanier and Smith (1960)
BChl <i>e</i> (835.1) ^c	Acetone		462 [185.0]				649 [48.9]	3.78	Borrego et al., (1999)
	Acetone/MeOH (7:2)		466 [155.6]				651 [41.4]	3.76	Borrego et al., (1999)
	Methanol		476 [130.7]				660 [35.5]	3.68	Borrego et al., (1999)
	Ethanol		469 [142.3]				654 [41.0]	3.47	Borrego et al., (1999)

^aRe-determined by Scheer and Steiner (cf. Oelze 1985). ^bThese Mr values were employed to calculate ε_{mM} values from the specific α extinction coefficients of Stanier and Smith (1960). ^cThese ε_{mM} values were calculated by Borrego et al., (1999) using an Mr value of 835.1 for the [8-propyl-12-ethyl-17³-farnesyl]-homologue of BChl *e*.