

Feature	Modern species									Fossil species	
	<i>C.meneghiniana</i>	<i>C.gamma</i>	<i>C.quillensis</i>	<i>C.striata</i>	<i>C.litoralis</i>	<i>C.caldensis</i>	<i>C.stylorum</i>	<i>C.deskacharyi</i>	<i>C.petensis</i>	<i>C.cassandreae</i>	
<b>LM</b>											
Valve size (µm)	5 - 45	6 - 50	24-40	10 - 50	10 - 60	16-34	25-67	12 - 30	15-60	MA : 24-46 mA : 18-30	
Valve undulation	tangential	strongly tangential	tangential	strongly tangential	strongly tangential	tangential	strongly tangential	strongly tangential	tangential	transversal	
Central area	unstructured/ radial humps & hollows	unstructured/colliculate granules	unstructured/ radial humps & hollows	colliculate	colliculate	colliculate	colliculate	colliculate	slightly colliculate	slightly colliculate	unstructured
c/p	number pattern	1 - 9 np	1 - 5 np	Up to 60 irregular ring	1 - 3 np	2 - 20 arc	1 - 9 arc	4 - 12 arc	2 - 16 arc	2 - 20 arc	10 - 25 irregular ring
Marginal striae	in 10µm	6 - 10	5 - 9	6 - 10	8 - 10	9 - 14	7 - 11	8 - 10	15 - 19	5-9	MA : 8-12 mA : 6-9
<b>SEM</b>											
Central lamina	np	+	+	+	nd	+	+	nd	+	np	
Marginal chambers	np	np	np	np	np	np	np	+	+	np	np
CFP	location structure	on raised part 1 tube + 3 pores	on raised part 1 tube + 3 pores	central 1 tube + 3 pores	on raised part 1 tube + 3 pores	on raised part 1 tube + 3 pores	on raised part 1 tube + 3 pores	on raised part 1 tube + 3 (4) pores	on raised part 1 tube + 3 pores	on raised part 1 tube + 3 pores	central 1 tube + 3(2) pores
MFP	mfp : costa position structure	1 : 1 on costa 1 tube + 3 pores	1 : 1 on costa 1 tube + 3 pores	1 : 1 on costa 1 tube + 3 pores	1 : 2-4(5) on costa 1 tube + 3 pores	1 : 2 on raised costa 1 tube + 2 pores	1 : 2(5) on costa 1 tube + 3 pores	1 : 1 on recessed costa 1 tube + 2 pores	1 : 2 (3) on recessed costa 1 tube + 3 pores	1 : 1 on costa 1 tube + 3 pores	1 : 1(2) on costa 1 tube + 3 pores
RM	number position Slit orientation	one / sessile on costa within ring of mfp opposite c/p radially	one / sessile on costa within ring of mfp opposite c/p radially	one / sessile on costa within ring of mfp radially	one / sessile on costa within ring of mfp opposite c/p tangentially	one / sessile on costa within ring of mfp opposite c/p radially	one / sessile on costa within ring of mfp opposite c/p oblique	one / sessile on recessed costa within ring of mfp opposite c/p radially	one / sessile on raised costa within ring of mfp opposite c/p tangentially	one / sessile on costa within ring of mfp opposite c/p radially	one / sessile on costa within ring of mfp along major axis radially
Spine	+	np, spinulae	+	+, granules	np	.	np	np	np	np	np
Habitat	salt tolerant (16 g/L)	low conductivity	saline (7-103 g/L)	brackish-saline	marine	Brackish - saline	brackish- saline	marine	nd	nd	
Reference	Håkansson 2002 Hoak et al. 2010	Lowe 1981 Håkansson 2002	Battarbee & Keister 1982 Håkansson 2002	Hoak et al. 2010	Lange & Syversten 1989 Tanaka 2007	Muylaert & Sabbe 1996	Hoak et al. 2010	Prasad & Nienow 2006	This study	This study	













