

582.26, 547.979

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 . . . , 2, 01001 ,
 2 . . . 0 ,
 . . . , 1, 01014 ,

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, b, -

Asterochloris Tschermak-Woess,

Myrmecia Printz, *Trebouxia* Puym. *Trentepohlia* Martius

Trebouxia *Myrmecia*

Trebouxia

0,8 /100 — 2,5 /100
 7,2 /100 — 15,8 /100

(β- —

(β- —

Asterochloris, *Myrmecia* *Trentepohlia*

(. . . , 2007).

© . . . , . . . , 2010

(*Trebouxia*,
Asterochloris, *Myrmecia* *Trentepohlia*,

13
 : SAG (), CCAP
 (), UTEX (),

()
 . 1.
 (3N BBM) (Friedl, Büdel, 1993):
 10-30 $\mu\text{mol} \cdot \text{m}^{-2} \cdot \text{s}^{-1}$ PPFD, 12:12 –
 15±2 °
 -2 . 2

()
Trebouxia *Trentepohlia* (Ba kor
 et al., 1998)

*Trebouxia** *Asterochloris*.
 : *Myrmecia*
 ()
Trentepohlia () (Kjoson, 1972).

*
 18S (Beck, 2002), *Trebouxia* ITS

(«*arboricola*», «*impressa*», «*corticola*» «*simplex*»).

1 .

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Trebouxia		
<i>Trebouxia usneae</i> (Hildreth & Ahmadjian) G. Gärtner	UTEX 2235	<i>Usnea filipendula</i> Stirt.
<i>T. galapagensis</i> (Hildreth & Ahmadjian) G. Gärtner	UTEX 2230	<i>Ramalina</i> sp.
<i>T. potteri</i> Ahmadjian ex G. Gärtner	UTEX 900	<i>Lecanora rubina</i> (Vill.) Ach.
<i>T. asymmetrica</i> Friedl & G. Gärtner	SAG 48.88	<i>Diploschistes diacapsis</i> (Ach.) Lumbsch
<i>T. gigantea</i> (Hildreth & Ahmadjian) G. Gärtner	UTEX 2231	<i>Caloplaca cerina</i> (Ehrhenb. ex Hedwig) Th. Fr.
<i>T. decolorans</i> Ahmadjian	CCAP 219\5a	<i>Xanthoria parietina</i> (L.) Beltr.
<i>T. jamesii</i> (Hildreth & Ahmadjian) G. Gärtner	UTEX 2233	<i>Schaereria fuscocinerea</i> (Nyl.) Clauzade et Cl. Roux
<i>T. simplex</i> Tschermak-Woess	SAG 101.80	<i>Chaenotheca chrysocephala</i> (Turner ex Ach.) Th. Fr.
<i>T. australis</i> A. Beck	SAG 22.05	<i>Tremolecia atrata</i> (Ach.) Hertel
Asterochloris		
<i>Asterochloris excentrica</i> (P.A. Archibald) Skaloud et Peksa	UTEX 17.14	<i>Stereocaulon dactylophyllum</i> Flörke
<i>A. magna</i> (P.A. Archibald) Skaloud et Peksa	UTEX 902	<i>Pilophorus acicularis</i> (Ach.) Th. Fr.
Myrmecia		
<i>Myrmecia biatorellae</i> (Tschermak-Woess et Plessl) J.B. Petersen	.	<i>Catapyrenium</i> sp.
Trentepohlia		
<i>Trentepohlia</i> cf. <i>umbrina</i> (Kütz.) Bornet	.	<i>Rocella phycopsis</i> Ach.

6- . 0,2

0,005 (3) 1 90 %- .

(Brown, Hooker, 1997). -

10.000 ./

5 +4 ° .

Specord UV VIS («Carl Zeiss», Jena).

440 ,

648 (, 1976),
 ,
 . 1
 = 665 a,
 649 - b, 440 - 454 - -
 .
 2005). (,
 :

$$= \frac{0,1 \cdot \cdot}{n},$$
 - (/100);
 - (/); - ();
 n - (); 0,1 -
 (/ 100).
 :

$$X \% = \frac{a}{b} \cdot 100\% ,$$
 % - ; a -
 (/100); b -
 (/100).
 ± 0,5 %,
 ± 0,2 %.
 -
 -
 a b, - ,
 . 2
 0,1 .
 -
 (a+b) 7,5 30,2 /100
 , *Trentepohlia*
 cf. *umbrina*, ()

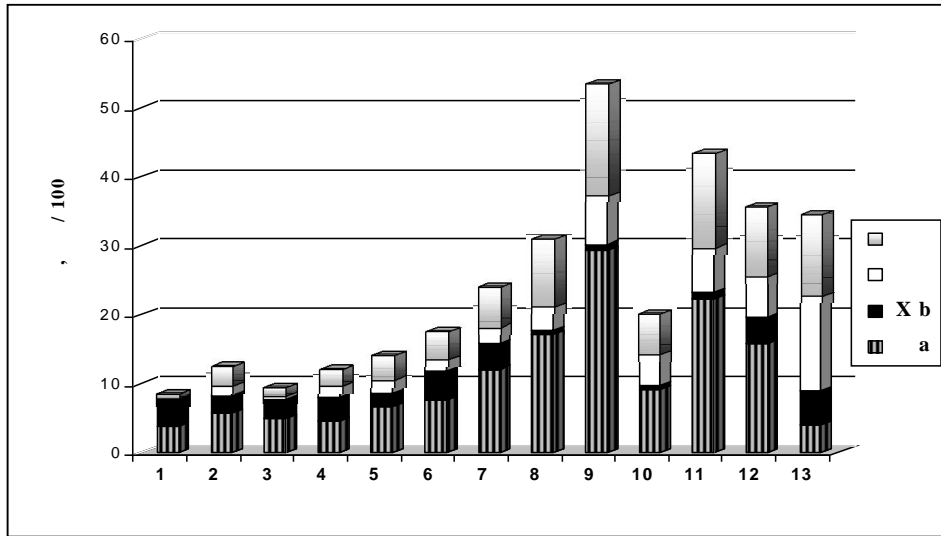
2.

	, /100 (%)			
	. a	. b	-	
<i>Trebouxia usneae</i>	3,9 (47,6)	3,6 (43,9)	0,1 (1,2)	0,6 (7,3)
<i>T. galapagensis</i>	5,7 (48,4)	2,5 (21,2)	1,08 (9,2)	2,5 (21,2)
<i>T. potteri</i>	4,9 (54,1)	2,8 (30,9)	0,3 (3,3)	1,1 (11,7)
<i>T. asymmetrica</i>	4,6 (39,3)	3,4 (29,0)	1,6 (13,7)	2,1 (18,0)
<i>T. gigantea</i>	6,6 (47,8)	2,0 (14,5)	1,8 (13,1)	3,4 (24,6)
<i>T. decolorans</i>	12,1 (51,5)	3,8 (16, 2)	2,1 (8,9)	5,5 (23,4)
<i>T. jamesii</i>	7,6 (44,4)	4,3 (25,1)	1,5 (8,8)	3,7 (21,6)
<i>T. simplex</i>	17,2 (56,4)	0,5 (1,6)	3,5 (11,5)	9,3 (30,5)
<i>T. australis</i>	29,4 (55,3)	0,8 (1,5)	7,2 (13,5)	15,8 (29,7)
<i>Asterochloris excentrica</i>	9,2 (46,9)	0,6 (3,1)	4,3 (21,9)	5,5 (28,1)
<i>A. magna</i>	22,3 (51,7)	0,9 (2,1)	6,6 (15,4)	13,3 (30,8)
<i>Myrmecia biatorellae</i>	15,8 (45,1)	3,8 (10,9)	5,7 (16,3)	9,7 (27,7)
<i>Trentepohlia cf. umbrina</i>	4,1 (12,0)	4,9 (14,4)	13,5 (39,6)	11,6 (34,0)

(29,4 /100)
Trebouxia australis, (3,9 /100)
) – *T. usneae* (. . 2).
b *Trentepohlia cf. umbrina*, –
T. simplex. –
 0,1 (*Trebouxia usneae*) 13,5 /100 (*Trentepohlia cf. umbrina*).
 15,8 /100 (*T. australis*).
 0,6 (*T. usneae*)

Trebouxia
 3,9 29,4 /100
b – 4,3 /100
Trebouxia
 0,1 7,2, – 0,6
 15,8 /100

Trebouxia.



a; b -
 b; X - ; X x -

«corticola» (*T. usneae* *T. galapagensis*)
 «impressa» (*T. potteri*)
 0,1-0,8,
 - 0,6-2,5 /100
 «arboricola» - *Trebouxia gigantea*, *T. asym-*
metrica, *T. jamesii* *T. decolorans*,
 (2,1-5,5 /100) -
 (1,5-2,1 /100).
T. simplex *T. australis*, «simplex»,
 (17,2-
 29,4 /100),
 (0,5-0,8 /100).
 (3,5-7,2)
 (9,3-15,8 /100).
Trebouxia

T. simplex *T. decolorans*,
Trebouxia,
 «corticola»,

Asterochloris

«simplex» ,
Trebouxia.
 (9,2-22,3 /100),
b (0,6-0,9 /100),
 - (4,3-6,6) (5,5-
 13,3 /100).

Asterochloris magna

A. excentrica -

Myrmecia

biatorellae Asterochloris excentrica (. . 2).

b M. biatorellae .

Myrmecia, . (

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Trentepohlia cf. umbrina, -

,

-

(9 /100)

(- - 13,5, - 11,6 /100

).

Trebouxia («corticola»

«impressa») -

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Trebouxia , . .

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Trebouxia

(,

, 1986; Siefemann-Harms, 1987), -

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(, 1990: .
: ..., 2007).
, *Trebouxia* (
«simplex» «arboricola») -
«simplex», (Tschermak-Woess,
1989b), *T. simplex* -
(~ 30 °)
10 ° , -
, -
«simplex».
– *Bellemeria* spp., *Lecidea* spp. (Beck, 2002), -
– *Flavocetraria nivalis* (Opanowicz, Grube, 2004), -
, -
«arboricola» -
, -
Trebouxia, -
(Mukhtar et al., 1994; Bhattacharya et al., 1996; ,
1999; , 2001;). -
-
Trebouxia, -
Asterochloris , -
, -
Asterochloris ,
, -
(Friedl, 1989), *Myrmecia* –
Trebouxia s. str. *Asterochloris* ,
, -

Trentepohlia

Trentepohliales (López-Bautista et al., 2002).

Trentepohlia,

Trentepohlia

(Chapman, 1984; O’Kelly, Floyd, 1990;

Rindi, Guiry, 2002),

Trentepohliales

(Bourrelly, 1966).

Trentepohlia

(Bold, Wynne, 1985).

Trebouxia, *Myrmecia*, *Asterochloris* *Trentepohlia*.

Trebouxia

(«corticola» «imprensa») («arboricola»
«simplex»)

Trebouxia

– *Asterochloris*, *Myrmecia* *Trentepohlia*,

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