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INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION
(ISC)

**ISO 18416—
2013**

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Candida albicans

**(ISO 18416:2007 Cosmetics — Microbiology —
Detection of *Candida albicans*, IDT)**



2016

1.0—2015 «
 1.2—2015 «
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 2
 3 (*
 7 2013 . 43)

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	BY KZ RU TJ UZ	

4 10
 2016 . Ne 612- ISO 18416—2013
 1 2017 .
 5 ISO18416:2007 «
 Candida albicans» («Cosmetics — Microbiology — Detection of Candida albicans», IDT)
 ISO 18416:2007 1 217 «
 » (ISO).
 1.5(3.6).
 ,

6 8

1	.....	1
2	.....	1
3	.....	2
4	.....	2
5	.....	2
6	.....	4
7	.....	4
8	.....	4
9	.....	5
10	(<i>Candida albicans</i>).....	6
11	.....	6
12	.....	7
	()	8
	()	10
	()	11
	.....	12

•
-
>
• . .);
(, , 3).
Candida albicans. *Staphylococcus aureus*. *Pseudomonas aeruginosa*
(, , *Escherichia coli* //)

Федеральное агентство
по техническому регулированию
и метрологии

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Candida albicans

Perfume and cosmetic products. Microbiology.
Detection of *Candida albicans*

— 2017—07—01

1

Candida albicans

pH

Candida albicans

Candida albicans

ISO 18415).

Candida albicans

2

ISO 21148:2005 Cosmetics — Microbiology — General instructions for microbiological examination

EN 12353:2006 Chemical disinfectants and antiseptics — Preservation of test organisms used for the determination of bactericidal, sporicidal and fungicidal activity

3

3.1 (product): - , -

3.2 (sample): (). 1 1 3,

3.3 (initial suspension): () -

3.4 (sample dilution):

3.5 (specified microorganisms): -

3.6 *Candida albicans*: -

* / — « -

3.7 (enrichment broth): , -

4

()

/ () -

[1].

[2]-[4].

5

5.1

ISO 21148.

ISO 21148.

(. 11).

(5.3.3.1)

Candida albicans

11.

5.2 ()

5.2.1

(. 11).

5.2.2

—1.0 ;
 —8.5 ;
 —1000 ³.

5.2.3

121*
 pH 15 7.0 10,2 . pH

5.3

5.3.1

5.3.2

5.3.2.1 (SDA)

- —40.0 ;
- —5.0 ;
- —5.0 ;
- —15,0 ;
- —1000 ³.

15 pH 5.6 ± 0,2 . pH 121*

5.3.2.2

(.) .

5.3.3

5.3.3.1 Eupon LT100

80.

9.

- —15,0 ;
- —5.0 .
- L- —0.7 ;
- —4.0
- —0.2 ;
- —5.5 ;
- —1.0 ;
- 80—5.0 ;
- 9—1.0 ;
- —1000 ³.

(. 9)

121*

15

pH 7.0 ± 0.2 . pH

5.3.3.2

(. .).
Candida albicans

5.3.4

5.3.4.1

- —40.0 ;
- —5.0 ;
- —5.0 ;
- —0.050 ;
- —15.0 ;
- —1000 *23*.

121 “ 15 . pH 5.6 ± 0.2 . pH -

5.3.4.2

5.3.5 1%- 80 (. .).

5.3.5.1

- —50.0 ,
- —15,0 ;
- 80 () — 10.0 ;
- —1000 3.

5.3.5.2

pH 6.0 ± 0.2 . pH 121 ^ 15 .

6

ISO 21148.

7

Candida albicans > 10231. : 1 > 48.72.
NCPF^{3>} 3179, NBRC^{4>} 1594, KCTC^{S>} 17205.

8

(3.1) (3.2)

* — American Type Culture Collection (. .).

² IP — Institute Pasteur (. .).

^{3>} NCPF — National Collection of Pathogenic Fungi (. .).

⁴ NBRC — National Biological Resource Center (. .).

KCTC — Korean Collection for Type Culture (. .).

ISO 21148.

ISO 21148

S

9

9.1

45

9.2

9.2.1

1 1 3

9 3.

S.

}

(.11.3).

()

(.11.3).

9.2.2

5

9.2.3

S

80).

(,

9.2.4

0.45

S

(. ISO 21148).

/

9.3

(. 9.2),

(32,5±2,5)*

20 . 72 .

9.4

Candida albicans

9.4.1

(32,5 ± 2,5) *

24 , 48 .

(. 1).

1—

Candida albicans

	<i>Candida albicans</i>

9.4.2

9.4.2.1

Candida albicans

Candida albicans

3.4.2.2

ISO 21148

Candida albicans

9.4.2.3

0.5-1 « 3 » ()

(37 ± 2) * 3 (37 ± 1) * 1.5-2

« () » ()

« » *Candida albicans*.

9.4.2.4

9.4.2.4.

1%- 80

24 (32.5 ± 2.5) ' 3

100" 400' *Candida albicans*

10

(***Candida albicans***)

: « *Candida albicans* S ».

/

: « *Candida*

albicans

S ».

11

11.1

Candida albicans

11.2

()

(SCOA) (32.5 ± 2,5) * 18-24 (SDA). *Candida albicans*.

1-106 / 3

(, . ISO 21148 ()]. 2 .

11.3

11.3.1

11.3.1.1

9 1 , 109-500 / 3 .
 1 3 15-20 3 48 .

11.3.1.2

((32.5±2.5)¹ 20-24 .
 (1 1 3) .
 1 3

11.3.1.3

Candida albicans

0.1 3 (11.3.1.1) -
 ()

(32,5±2.5)*

20-24 .

11.3.1.4

()

(32.5±2.5)*

85 100)
 20-24 .

11.3.2

15-20 3 .
 100 500 / 3

Candida albicans

()

(),
Candida albicans

Candida albicans.

Candida albicans.

12

a)

b)

c)

d)

)

)

()

.1
.1.1
.1.1.1
- -17,0 .
- -3,0 ;
- -5,0 ;
- -2,5 .
- -2,5 ;
• -1000³ .
.1.1.2
() ,
pH 121* 15
7,3 ± 0,2

.1.2
.1.2.1
• -20,0 :
- -5,0 :
• -5,0 .
- -2,0
- -0,7 .
- 60()-5,0
- -5,0 ;
- -0,1
- -1000³ .
.1.2.2
80
121 *
15
pH 7,2 ± 0,2 . pH

.1.3
.1.3.1
• -20,0
• -2,0 .
• -0,5
- -5,0 ;
- -1,0
- 60()-7,0
- -1000³ .
.1.3.2
121 *
15
pH 5,7 ± 0,2 . pH

.1.4
.1.4.1
- -10,0 .
• -7,0n
• 5- (Na₂SiO₃-5)-6,0 ;
- 80()-5,0 ;
• -5,0 ;

-	-2.5 ;				
-	-2.5				
•	-1.0 ;				
•	-0.02				
•	-1000 ³ .				
.1.4.2					
15		pH	7,6 ± 0,2	pH	121 *
.1.5					80 (
SCDLP 80)					
.1.5.1					
•	-17,0 ;				
•	-3,0 ;				
•	-5,0 ;				
-	-2,5 ;				
•	-2,5 ;				
-	-1,0				
-	80 ()-7,0 .				
•	-1000 ³ .				
.1.5.2					
15		pH	7,6 ± 0,2	pH	121 *
.2					
.2.1		(PDA)			
.2.1.1					
-	-4,0 ;				
•	-20,0				
-	-15,0 ;				
•	-1000 ³				
.2.1.2					
			121'	15	
		pH	5,6 ± 0,2	pH	
.2.2					(SCDA)
(TSA)					
.2.2.1					
-	-15,0 .				
-	-5,0 ;				
•	-5,0 :				
-	-15,0 ;				
•	-1000 ³ .				
.2.2.2					
			121 *	15	
		pH	7,3 ± 0,2	pH	
.3.1					
-	-4,0 ;				
•	-20,0 ;				
-	-15,0 ;				
-	-0,05 .				
•	-1000 ³ .				

.32

5.610.2 .pH

121 "

15

pH

0.10

0,10

()

		()
• : - • ; • :	60	80.30 / 3,+ .3 / 3 + .20 / 3,+ 80.4 / 3 D/E- *) : : .1 / 3,+ NaCl.9 / 3; 80.5 / 3
- -	80.	60.30 / 3,+ 4 / 3,+ / 3 80.30 / 3,+ .30 / 3,+ + .3 / 3 *) D/E- : : .1 / 3,+ NaCl.9 / 3; 80.5 / 3
.	,	+L- .3 / 3,+ 80.30 / 3,+ .1 / 3 80.30 / 3,+ .30 / 3,+ +L- .1 / 3,+L- .1 / 3 D/E- *) : 80. 3 / 3,+L- .0.5 / 3
-		.5 / 3 : .3 / 3
.	,	80.30 / 3,+ .30 / 3,+ + .3 / 3 : .1 / 3, +NaCl.9 / 3; 80.5 / 3
	80	80.30 / 3,+ .30 / 3,+ + .3 / 3 : .1 / 3,+ +NaCl.9 / 3; 80.5 / 3
(.Zn, Hg)	.L-	.0.5 / 3 5 / 3 L- .0.8 / 3 1.5 / 3 D/E- *) : .0.5 / 3
*) D/E-	(Dey/Engiey-), .

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(Candida albicans.
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