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INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION  
{ISC)

**ISO 21148—  
2013**

-

**{ISO 21148:2005, Cosmetics — Microbiology — General instructions  
for microbiological examination, IDT)**



2016

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

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	BY KZ KG RU TJ UZ	

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 2016 . N9 619- ISO 21148—2013  
 1 2017 .  
 5 ISO 21148:2005 «  
 » (Cosmetics — Microbiology — General  
 instructions for microbiological examination. IDT).  
 ISO 21148:2005 ISO/ 217 «  
 » (ISO).  
 1.5 ( 3.6)  
 6

« »,  
« ».  
« ».  
—

( ) -  
, -  
— -

([www.gost.nj](http://www.gost.nj))

1	.....	1
2	.....	1
3	.....	1
3.1	.....	1
3.2	.....	1
3.3	.....	2
3.4	.....	2
3.5	.....	2
4	.....	3
4.1	.....	3
4.2	(        ) .....	3
4.3	.....	3
4.4	.....	3
4.5	- .....	3
4.6	.....	3
4.7	(        ).....	3
4.8	.....	4
4.9	.....	4
4.10	.....	4
4.11	(        ).....	4
4.12	.....	4
4.13	.....	4
5	.....	4
6	.....	5
6.1	.....	5
6.2	.....	5
7	.....	5
7.1	.....	5
7.2	.....	5
7.3	.....	5
7.4	.....	6
7.5	.....	6
7.6	.....	6
7.7	.....	6
8	.....	6
8.1	.....	6
8.2	.....	6
8.3	.....	7
8.4	.....	7
8.5	.....	8
8.6	.....	8
8.7	.....	8

9 ..... 8

9.1 ..... 8

9.2 - ..... 9

9.3 ..... 9

9.4 ..... 9

9.5 ..... 9

9.6 ..... 9

10 ..... 9

10.1 ..... 9

10.2 ..... 10

10.3 ..... 11

10.4 ..... 11

11 ..... 11

12 ..... 11

( ) ..... 12

8( ) ..... 15

( ) ..... 16

..... 17



Cosmetics. Microbiology. General instructions for microbiological examination

—2017—07—01

**1**

pH. ( ). ( ).

**2**

- 6
- 2.1 (product): ( ).
- 2.2 (sample): 1 1 3,
- 2.3 (initial suspension): ( )
- 2.4 (sample dilution): ( ).

**3**

- 3.1
  - 
  - 
  - 
  -
- 3.2
  - 
  -





4

4.1

4.2

a)

b)

4.3

$\pm 0,01$

4.4

4.5

pH-

0.01 pH.

$\pm 0.1$  pH.

4.6

4.7

).

4.8

- , : ( , ),
- , ;

4.9

, ,  $(5 \pm 3)^\circ$  .

4.10

, ,  $18^*$  .

4.11

( )

\*

- :
- , ;
- / .

4.12

4.13

- a) ( . );
- b) ( , , , 85 );
- c) ( , , 85 , 100 );
- d) (10.2,1<sup>3</sup>), ;
- e) :
- f) ( / . / . . );
- g) :
- h) , :
- i) ;
- j) .

- , 50<sup>3</sup>, -
- 47 50 . 0,45 ; -
- , ;
- , 100<sup>3</sup> (

2 ).

### 5

**6**

6.1

6.2

**7**

7.1

7.2

7.2.1

7.2.2

7.3

1 170 180 °

15 121 ®

) , 7.6. ( )

7.4

7.5

( )

3

7.6

(7.2)

(7.3).

(10.1).

7.7

(7.6).

8.2.

0.125 %

( )  
( 1)=0.1 / 3) [6].

( , , . )

**8**

8.1

8.2

( )

\*

-

[2]. [9]. [11]

[8].

( , \* )

8.3

8.3.1

•

•

8

( ) \*

8.3.2

8

8.3.3

pH pH (4.5) \*

pH±0.2 pH.

40 / 1 ( 1 / 3) (HCl) [ ], pH (NaOH) , 36.5 / 3 ( 1 / 3) -

8.3.4

8.4

8.4.1

•

•

8

pH.

8.4.2

(4.6).

15 . 121 \* .

8.4.3

0,22 ( , 0,45 ).

15 .

121 \* .

8.5

8.5.1

- 
- 

8.5.2

— TSA-срета,

8.5.3

- 
- 
- 
- 

(pH . .);  
( . . ).

8.6

( . . ).

48 \* . 48 \*

8 .

8.7

15 20 3

3—4 ( . . ) 90

8.5.

**9**

9.1

2.1 2.2

9.2

9.3

9.4

- 
- 
- 
- 

(2.1)

(2.2)

9.5

- 
- 
- 

9.6

(7.6).

## 10

10.1

a)

):

b)

c)

- d) ; ( ) , -
- e) ; ( ) : -
- f) ; ) , . . -
- h) ; ( ) . . ' ( ) ; -
- i) ; , ( ) , -
- j) (7.6): , ( ) , -
- k) (7.6); , ; -
- l) ( ) , -
- ( ) , -
- ( ) . -
- ( , ) — -
- , . ; -
- .

10.2

10.2.1

45

1 1 3

10.2.2

S.

S

10.2.3

d.

S

( , 80).

d.

10.3



10.4

**11**

**12**

( )

.1  
.1.1

.12.

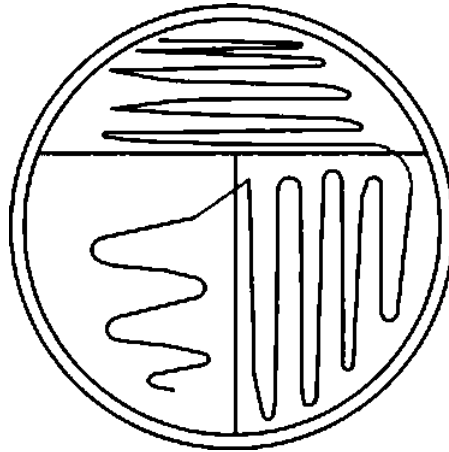
.1.2  
.1.2.1

(.1.2.2),

.1.2.2

(.1.2.3).

(.1).



.1—

.1.2.3

1—2 3

.1.2.2.

.1.3

.1.4

2 [ (Hucker))

2.1

8

2.2

2.2.1

2.2.2

2.2.2.1

- —2.0 ;
- (95 %) —20<sup>3</sup> ;
- (C<sub>j</sub>H<sub>a</sub>N<sub>2</sub>O<sub>4</sub>)>—0.8 ;
- —80<sup>3</sup> .

2.2.2.2

24

2.2.3

2.2.3.1

- —1.0 :
- (KI) —2.0 .
- —100<sup>3</sup> .

2.2.3.2

100<sup>3</sup> 10<sup>3</sup>

2.2.4

2.2.4.1

- —0,25 ;
- (95 %) —10<sup>3</sup> ;
- —100<sup>3</sup> .

2.2.4.2

100<sup>3</sup> .

A.2.2.S

18—24

( 2.2.2)

1

( 2.2.3).

1

(95 %)

30

( 2.2.4)

10

2.2.6

(4.13).

.3.1		{ 20 <sub>2</sub> }	
.3.2	1 <sup>3</sup>	0.5 <sup>3</sup>	(3 %)
.3.3	1—2 <sup>3</sup>	5	(3%)
.3.4			
( 1 )			
.4			
.4.1			
.4.2			
.4.2.1	N.N.N'.N'-	(C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> ·2HCl) 1.0:	
.4.2.2	100 <sup>3</sup>		
.4.2.3			
.4.2.4			5—10
10			
.5		8	

( )

.1

(

.2

8.3

10 .).

8.7.

8.7).

( -  
, -

( )

.1

( ) } , , , . *colli.*  
[4]. . *albicans* -  
. *aeruginosa*. *S. aureus* 36—46 . 16—24 .

.2

3 , 100 3. 5 -  
2—3 . ( , ) . -  
( ) .

8 1-10<sup>8</sup> — 3-10<sup>8</sup> / 3 ( . *albicans* 1-10<sup>7</sup> — 3-10<sup>7</sup> / 3)  
( 620 ± 20) ] 10 . -  
0.150 0.460 8 -

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\* ISO 7218:1996.

ISO 21148—2013

665.57 58:579.2:006.35

07.100.99; 71.100.70

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20.06.2016.

22.06.2016.

60 \* 64 Vg.

2.79.

« », 115419. Москва, . 11.  
[www.lunsiedat.iu-y-book@mail.ru](http://www.lunsiedat.iu-y-book@mail.ru)

« ». 123995. . 4.  
[www.gostmfo.ru](http://www.gostmfo.ru) [info@gostinfb.ru](mailto:info@gostinfb.ru)