

8. Laboratory Materials

Mycoplasma Detection

RIDASCREEN®8.1

Disinfectants

Catalogue Numbers 8.2

Barrycidal 368.2 - 8.3

Desipure C-1008.4

Barrydin8.5



Mycoplasma Detection

RIDASCREEN®

Description

Contamination of continuous cell lines by mycoplasmas is a serious problem. As a chronic infection, it impairs the functions of cell cultures in many ways. They interfere with the metabolism of the cells altering their growth, their immunological and biochemical characteristics as well as their viability. This may have significant implications in terms of cost and time for the laboratories.

An infection of a cell culture with mycoplasmas cannot be detected visually or under the microscope. It is therefore vital to carry out regular tests on the cell culture. The RIDASCREEN®, Mycoplasma Immunofluorescence Test contains highly specific monoclonal antibodies against a wide range of mycoplasmas, including the species *Acholeplasma laidlawii*, *Mycoplasma hyorhinis*, *M. arginini*, *M. orale*, *M. fermentans* and *M. salivarium*, which are known to be present in 96 % of all cell culture infections.

The RIDASCREEN®, Mycoplasma IFA is carried out rapidly and is highly sensitive for the detection of mycoplasmas due to the application of a second FITC-labelled antibody. All reactants are ready-made and allow for two test methods:

- **One-Step Marking** (Mark-Wash-Observe) For rapid screening of suspected positive cultures.
- **Two-Step Marking** (Mark-Wash-Mark-Wash-Observe) For cultures with doubtful or slightly positive initial results. After the first step, a FITC-labelled anti-MAK antibody is introduced; incubate for a further 20 minutes at room temperature.

Results

Yellow-green fluorescence on the rim or between the red-coloured cells.

Comparative studies of Different Methods for the Detection of Mycoplasmas in Cell Cultures

Test method	Sensitivity	Specificity
DNA-RNA-Hybridisation	100%	100%
PCR (in-house)	100%	100%
ELISA	65,5 %	100%
DNA-Marking (direct)	93,1 %	92,3 %
RIDASCREEN® Mycoplasma IFA	100%	92,3 %

Reference: from culture, 42 cell lines (29 pos./13 neg.) of different origin were tested.

Advantages

Mycoplasma Detection

- Ready-made reagents
- Contains cell stainer
- Dropping bottle
- Controls included
- Rapid processing
- Rapid
- Safe
- Sensitive
- Reliable

RIDASCREEN®, Mycoplasma IFA*

- A new immunofluorescence test kit.
- A new method of mycoplasma - detection in cell cultures, using monoclonal antibodies.

*registered trademark

Mycoplasma-detection for 20 tests	1 x	R-4203
Mycoplasma-detection for 50 tests	1 x	R-4202



Disinfectants

Catalogue Numbers

Barrycidal 36 spray bottle	50 ml	360050
Barrycidal 36 dispenser bottle	500 ml	360400
Barrycidal 36 spray bottle	1 L	361000
Barrycidal 36 can	5 L	365000
Barrycidal 36 can	10 L	360000
Dispenser box	100 cloths	360101

Barrydin can	5 L	465000
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Desinpure can	10 L	660000
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Spray head for 500 ml bottles	700500
Spray head for 1 L bottles	701000
Dosage pump for 500 ml bottles	710500
Wall-mounted dispenser for 500 ml bottle E24 (short handle)	720500
ELS24 (long handle)	720501
Dosage pump for cans	730010
Tap for cans	740010

Barrycidal 36

Description

Ready for use solution

Barrycidal® 36 is a modern disinfectant which fulfils the newest technical standards. It has a broad spectrum and can be used in many aspects of daily life. With the new composition all stages of disinfection and hygiene are eliminated.

Characteristics

Barrycidal® 36 disinfectant is a ready for use solution, suitable for prophylaxis against hospital-acquired infections in all areas of hospitals as well as for disinfection measures in food industry, dairies, soft drink industry, etc. Barrycidal® 36 is a synergistic mixture of selected organic nitrogen compounds. It is effective against the whole spectrum of bacteria, yeasts, fungi, and viruses. Barrycidal® 36 contains no aldehydes, phenolic derivatives, chlorine or peroxides.

The special advantages of our ready for use disinfectant solution Barrycidal:

- Without alcohol
- Non allergic
- Poison class free
- Eliminates odours and smells
- Good biological degradable
- Good compatibility for all materials
- Non irritate to skin or mucous membranes
- Acts rapidly with long lasting effect
- Eliminates odours and smells
- Doesn't stain
- Large spectrum against BACTERIA, YEASTS, FUNGI and VIRUSES (e. g. HEPATITIS B, HIV, ROTA VIRUS)
- Doesn't contain mercury, formaldehydes, phenol derivates, chlorine or peroxide



Mycoplasma Detection

Barrycidal 36

Indications and area of application

Cleaning and disinfection of all kinds of surfaces and objects in one step, especially in areas sensitive against disagreeable smell, as well as for hand disinfection.

- Doctor's surgery, hospitals
- Public baths
- Fire departments
- Health care
- Asylum
- Cosmetic, kindergarten
- Laboratory, incubators, centrifuges
- Food industries
- Public facilities
- Podology, police
- Ambulance, solarium, sauna, hospital, schools
- Animal shelter
- Veterinarian
- For foot disinfection
- Foot mushroom prophylaxis
- For shoe disinfection

Dosage

Surface disinfection (Hospitalism prophylaxis and in general practice, bactericidal, fungicidal):

- undiluted/60 min
- HBV/HIV: undiluted/30 min
- Athlete s foot prophylaxis undiluted/15 min

Application**Surface disinfection**

- Dosage: undiluted/60 min
- Spray disinfection: The surfaces to be disinfected should be completely wet by spraying. Let dry, no rinsing necessary, apart from surfaces, which come into contact with food.

Composition**100 g contains:**

0.0975 g n-Octyl-dimethyl-benzylammoniumchlorid

0.0300 g Benzethoniumchlorid

0.0025 g Methylbenzethoniumchlorid

with some more cleaning and disinfectant substances like propandiol, triethanolamine, etc.

Physico-chemical Properties

Appearance: clear, colourless solution

pH-Value (20 °C): 8.0 ± 0.5

Density (20 °C): 1.046 ± 0.020

Stability: 5 years

Disposal of Product

50 ml spray bottle

500 ml round bottle

1000 ml spray bottle

5 liter can

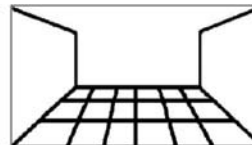
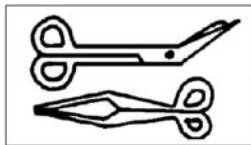
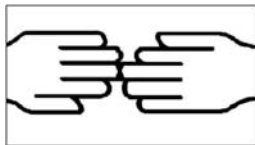
10 liter can

Classified as non-poisonous and non toxic solution

BAG E1227/T73512 (Swiss)

DGHM-listed (Germany)

OECHMP-listed (Austria)



Mycoplasma Detection

Desipure C-100

Description

Disinfectant concentrate with intensive cleaning properties**Characteristics**

Desipure C-100 is a disinfectant concentrate with intensive cleaning properties for all purposes of surface disinfection and cleaning in all areas of hospitals against hospital-acquired infections as well as for disinfection measures in food industry, kitchens, household etc. Desipure C-100 contains as active ingredient a surface active organic nitrogen compound. It is effective against the whole spectrum of bacteria, incl. Salmonella, yeasts and fungi. Desipure C-100 is free of aldehydes, especially formaldehyde, phenolic derivatives, chlorine and peroxides.

Indications

Cleaning and disinfection of all kinds of surfaces and objects in one step, particularly in areas sensitive against disagreeable smell.

Composition**100 g Desipure C-100 contain:**

- 9,8 g N,N-Didecyl-N-methyl-poly (oxyethy) ammoniumpropionate
- 12.0 g ethoxylated fatty alcohols Glycolderivatives

Physical-chemical Properties

Appearance: clear, yellowish solution
 pH-Value (20 °C): 7,0 ± 1,0
 Density (20 C): 0.995
 Stability: 5 years

Microbiology

Bactericidal
 Fungicidal
 Virus inactivating (HBV, HIV, Rotaviruses)

Dosage**Surface disinfection for hospitalism prophylaxis:**

1.0 %/1 h
 0.5 %/4 h

Application – Surface disinfection

- Wiping disinfection (two-bucket-method) or similar
- Out of dosage apparatuses
- Cleaning machines
- Spraying with suitable equipment

Registrations and Listings

BAG/SFOHP E1229 / T78288 Poison-classification no.4
 Disinfectant listed of DGHM (Germany)

Disposal of Product

10 litre cans
 Dosage pumps for 10 litre-cans
 Discharge taps for 10 litre cans

Advantages

- Neutral odour
- Virus inactivating
- Good biological degradable
- Broad action spectrum
- Very high economy
- Very fast surface disinfection
- Aldehyde- and formaldehyde free
- Cleaning in one processing step



Mycoplasma Detection

Barrydin

Description

Concentrate for Instrument Disinfection
– free from aldehydes and phenols**Characteristics**

Barrydin is a new developed disinfectant based on a synergistic mixture of quaternary ammonium compounds, guanidinium derivatives and alcylopolymines. It is also free of aldehydes, especially formaldehyde, phenolderivatives, chlorine, alcohol and similar. It is characterized by a comprehensive spectrum, short contact time, excellent cleaning activity, neutral smell and non corrosivity. No protein fixing due to aldehyde free formulation.

Range of Application

Short term disinfection and cleaning in one step. Cleaning and disinfection of all kinds of surgical instruments in all clinical departments and medical practices incl. instruments for micro-invasive surgery (MIS), anesthesia material and flexible and rigid endoscopes Barrydin contains a corrosion inhibitor and is free from aldehydes and phenols.

Composition**100 g Barrydin contain:**

- 3.75 g Cocosporylendiaminguanidindiacetat
- 5.63 g Didecyloxyethylmethylammoniumpropionat

Physical-chemical Properties

Appearance: clear, blue-green solution

pH-Value (20 °C): concentrate: 9.7

2 % aqueous solution: 10.4

Conductivity of the concentrate: 10 mS x cm⁻¹

Density (20 °C): 0.995

Microbiology

- Bactericidal (incl. TbB, mycobacterium terrae) and Fungicidal
- Virus inactivating (HBV, HIV, Adenovirus, Papovavirus, Poliovirus)
- Sporocidal (qualitative suspension testing)

Dosage**Instrument disinfection:**

1.0 %/60 min

2.0 %/30 min

short time disinfection:

3.0 %/15 min

HBV/HIV: 1.0 %/60 min – 2.0 %/15 min

Adenovirus 2.0 %/60 min – 4.0 %/30 min

Papovavirus 1.0 %/60 min – 2.0 %/30 min

Poliovirus 50 °C: 1.0 %/10 min

Application

Prepare the working dilution in the right concentration!

Instrument disinfection:

Place instruments in the working solution so that they are totally covered. Cover the container if possible. After the required contact time wash instruments carefully with running water and allow to dry. Process instruments further as necessary. Suitable for ultrasonic apparatuses.

Registrations and Listings

SFOHP = Swiss Federal Office of Health Public Bern

E1230/T91445 Poison-classification: No.4

Disinfectant Listed of DGHM (Germany-Certificate)

Disposal of Product

5 liter PE-can

Advantages

- Cleaning in one step
- Very economical
- Short term disinfection
- Aldehydes and phenol free
- Extremely low concentration
- A very broad action spectrum
- Good compatibility for all instruments

