

IQ A20

Instrument Disinfectant

Product Information

Area of application

IQ A20 is an aldehyde-free concentrate for simultaneously disinfecting and cleaning the general and surgical instruments made of metal, plastic materials, rubber and glass in clinics, care homes (old people's homes, etc.) or medical research, etc.

Advantages of the product

- Manifold fields of application – suitable for all instruments, including rotary instruments which are sensitive to alkali and alcohol.
- Tested effectiveness with comprehensive effective spectrum against bacteria, fungi and all viruses (virucidal against enveloped and non-enveloped viruses).
- VAH/DGHM listed.
- Tested in accordance with EN 13727, EN 13624, EN 14348, EN 14476, EN 14561, EN 14562, EN 14563.
- Economical due to low application concentration.
- Extraordinary cleaning activity – removes the most stubborn deposits.
- Special corrosion inhibitors result in an excellent material compatibility.
- Toxicologically safe – the product does not contain any poisonous substances.
- Service life of ready-to-use solution: 14 days max.
- Pleasant, fresh fragrance.



Microbiological effectiveness

IQ A20 Instrument Disinfectant has the following characteristics of performance:

Application	Concentration	Time
Instrument disinfection (according to VAH/DGHM)	2%	15 min.
Bacteria inclusive of MRSA ₁) and fungi ₂)	2%	15 min.
TB bacteria	2%	1 hour.
Vaccinia viruses, BVDV incl. HBV, HCV and HIV ₃)	1%	1 min.
Adeno viruses	2%	30 min.
Polyoma SV 40 viruses	2%	5 min.
Polio viruses	6%	4 hours
Noro viruses ₄)	6%	4 hours

- 1) Effectiveness against bacteria implies effectiveness against MRSA.
- 2) Test for *Candida albicans* and *Aspergillus niger*.
- 3) In accordance with RKI recommendation (Bundesgesundheitsbl. 47, 62 – 66, 2004).
- 4) Effectiveness against Polio viruses implies effectiveness against Noro viruses.

Physical Properties

Concentrate:		1% Ready-to-Use Solution:	
Appearance:	Clear green liquid of low viscosity	Appearance:	Clear, light green solution
Density:	D = 1.05 ± 0.01 g/cm ³ (20°C)	pH value:	11.9 ± 0.5
pH value:	13.8 ± 0.5		

Application

IQ A20 has a concentration of 2% for an action period of 15 minutes in accordance with VAH/DGHM and 2% and 60 minutes if TB bacteria are included. In order to make 1 litre of ready-to-use solution, pour 20 ml of **IQ A20** out of the container or bottle using the measuring beaker/dosing head and fill with water up to 1 litre. When using an ultrasonic cleaner, we recommend 2% for 2 minutes, for TB bacteria 2% and 30 minutes.

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The instruments must be completely covered by the disinfecting solution. Remove disinfected instruments from the bath, rinse them under running water and dry and sterilize them, if necessary. The service life of the ready-to-use solution is 14 days max. We recommend replacing the solution with a fresh solution if it becomes heavily soiled with blood and protein.

Do not mix **IQ A20** with other disinfectants or detergents. Always first disinfect and if necessary clean used instrumentarium. Rinse instruments with plenty of water and dry them up before sterilization.

Caution

We recommend testing the material compatibility of **IQ A20** in each individual case.

Do not mix **IQ A20** with preparations which contain aldehydes, e.g. glutardialdehyde or glyoxal, as they may cause reddish brown staining when coming into contact with **IQ A20**. Clean the disinfection box thoroughly before using **IQ A20** for the first time.

Chemical composition

IQ A20 is based on a combination of alkylamines, quaternary ammonium compounds, non-ionic surfactants, complexing agents and adjuvants in aqueous solution.

100 g contains 15 g 3-aminopropyl-dodecyl-1,3-propanediamine, 12.5 g alkyl-benzyl-dimethyl-ammonium chloride, citronellol, coumarin.

Toxicology

The acute oral toxicity (LD₅₀) of the concentrate in rats is approx. 1400 mg/kg of body weight. **IQ A20** is therefore classified as "harmful". The acute dermal toxicity (LD₅₀) in rats is > 2000 mg/kg of body weight. **IQ A20** is therefore classified as "non-toxic". Contact of the 2% ready-to-use solution with the eyes causes irritation whereas contact with the skin does not have any irritating effects.

Ecology

If adequately diluted, the ready-to-use solutions are ecologically safe as all organic constituents are biodegradable. The packing is made of polyethylene and can therefore be exploited both materially and thermally. To recycle, rinse the containers or bottles with water. The acute fish toxicity LC₅₀ (96 h) is 2.58 mg/l.

Caution

IQ A20 concentrate is classified as "corrosive" and "dangerous to the environment" (R 22-35-48-50, S26-28-46-37/39-61; see MSDS) in accordance with the directives relating to the classification, packaging and labelling of dangerous substances and preparations.



Description	U/M ml	Type	Pack Size	Item Code
IQ A20	10 Liter	Can	Each	1 02 006 0010
IQ A20	1 Liter	Bottle	6 per Box	1 02 006 0006

IQ B20 Wipe Disinfectant

Product Information


Area of application

Aldehyde-free concentrate for simultaneously disinfecting and cleaning all washable surfaces and objects (floors, walls, fixtures, devices) in all fields in clinics, e.g. in operating rooms, intensive care units, casualty wards, central sterilization departments and for diagnosis devices which are also used for operations. **IQ B20** is also used by rescue services, in care homes (old people's homes, etc.), the food industry and in all fields where impeccable hygienic conditions are necessary

Advantages of the product

- For all washable surfaces and objects.
- Increased safety because of remnant effect (long-term effect) if used regularly.
- Intensive cleaning power, contains selected cleaning substances.
- Comprehensive effective spectrum against bacteria, fungi and many viruses (virucidal with limited effectiveness against enveloped viruses, e.g. Vaccinia viruses, BVDV inclusive of HBV, HCV and HIV, and non-enveloped viruses, e.g. Noro viruses).
- Excellent material compatibility – suitable for all customary floor coverings which can be mopped with water, as well as for sensitive materials, e.g. acrylic glass.
- Economical due to low application concentration.
- VAH/DGHM listed. Tested in accordance with EN 13727, EN 13624, EN 14476.
- Pleasant fresh fragrance.



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Application

The wipe disinfectant requires an action period of 15 minutes and a 1% concentration. In order to make 10 litres of ready-to-use solution, pour 100ml of **IQ B20** out of the stock container in a bucket and fill up to 10 litres with cold water. We recommend appropriate wet wipe methods. Do not mix **IQ B20** with household detergents.

Notes

Wipe disinfection and cleaning must be carried out daily in all units where infections may start or where protection against infections is necessary. In the food industry the disinfected surfaces must be thoroughly rinsed with water after the necessary contact time. The suitability of **IQ B20** must be tested in each individual case if materials which are not waterproof are to be disinfected.

Chemical composition

IQ B20 is based on quaternary ammonium compounds. 100 g of **IQ B20** contains 6,5 g alkyl-benzyl-dimethyl-ammonium chloride, non-ionic surfactants, (5-15%), alkaline cleaning components (<5%), complexing agents (<5%), adjuvants, hexylcinnamal, butyl phenyl methyl propional and linalool in aqueous solution.

Toxicology

The acute oral toxicity (LD₅₀) of **IQ B20** in rats is approx. 5900 mg/kg of body weight. Therefore, **INO B20** is classified as "non-toxic". The acute dermal toxicity (LD₅₀) in rats is > 2000 mg/kg of body weight. Therefore, **IQ B20** is classified as "non toxic". **IQ B20** concentrate is irritant in case of contact with skin, mucous membranes or the eyes. The 1% ready to use solution has no sensitising properties. There is no risk of inhalation under normal conditions of use.

Ecology

The ready-to-use solutions of the preparation are ecologically safe as all active ingredients are biodegradable when appropriately diluted in flush water. The surfactants meet the requirements of the OECD guidelines. The packing is made of polyethylene and can therefore be exploited both materially and thermally. To recycle, rinse the containers or bottles with water.

Caution

IQ B20 concentrate is classified as "irritant" and "dangerous to the environment" in accordance with the Directives relating to the classification, packaging and labeling of dangerous substances and preparations (R 38-41-50, S 26-37/39-57-61; see MSDS).

IQ B20 has the following characteristics of performance:

Application	Concentration	Time
Surface disinfection (in accordance with VAH/DGHM)	1%	15 min.
	2%	5 min.
Bacteria inclusive MRSA ₁ and fungi ₂	1%	15 min.
TB bacteria (in accordance with EN 14348, EN 14563)	1%	1 hour.
	1%	1 min.
	4%	30 min.
Vaccinia viruses, BVDV incl. HBV, HCV and HIV ³		
Norovirus ⁴		

¹⁾ Test for *Candida albicans* and *Aspergillus niger*

²⁾ Effectiveness against bacteria implies effectiveness against MRSA.

³⁾ In accordance with RKI recommendation (Bundesgesundheitsbl. 47, 62 – 66, 2004).

⁴⁾ Test for MNV surrogate virus.

Physical Properties


Concentrate:		1% Ready-to-Use Solution:	
Appearance:	Clear liquid of low viscosity	Appearance:	Clear solution
Density:	D = 1.05 ± 0.01 g/cm ³ (20°C)	pH value:	9.5 ± 0.5
pH value:	12.8 ± 0.5		



Description	U/M ml	Type	Pack Size	Item Code
IQ B20	10 Liter	Can	Each	I 02 010 0010

IQ B45

Quick - Acting Disinfectant

 German CE Quality Product

Product Information

Area of application

Adehyde-free ready-to-use solution for fast-acting alcoholic wipe or spray disinfection as well as for cleaning sensitive surfaces of medical devices (operating tables, medical devices, dressing trolleys, stethoscopes, etc.) and other surfaces, particularly in poorly accessible areas, in clinics, in care homes, the food industry and in all fields where impeccable hygienic conditions are necessary.

Advantages of the product

- Excellent material compatibility. Particularly suitable for use on sensitive surfaces made of plastic, acrylic glass or artificial leather.
- Comprehensive effective spectrum against bacteria, fungi and all viruses (virucidal with limited effectiveness against enveloped viruses, e.g. Vaccinia viruses, BVDV inclusive of HBV, HCV and HIV).
- VAH/DGHM registered. Tested in accordance with EN 14348, EN 14476.
- Dries quickly.



Microbiological effectiveness

IQ B45 has the following characteristics of performance:

Application	Concentration	Time
Surface disinfection (according to VAH/DGHM)	100%	1 min.
Bacteria inclusive of MRSA ¹⁾ and fungi ²⁾	100%	1 min.
TB bacteria	100%	2 min.
Vaccinia viruses inclusive of HBV, HCV, HIV ³⁾	100%	30 sec.

¹⁾ Effectiveness against bacteria implies effectiveness against MRSA.

²⁾ Test for *Candida albicans*.

³⁾ In accordance with the RKI recommendation (Bundesgesundheitsbl. 47, 62 – 66, 2004).

Application

Never dilute IQ B45. If IQ B45 is used as a wipe disinfectant, moisten a cloth by means of the squeeze bottle and the surfaces or apply IQ B45 onto the surfaces direct and wipe them dry. If it is used as a spray disinfectant, spray surfaces and objects from a distance of 20 to 30 cm until they are fully soaked and either wipe with a cloth or spray the preparation into a cloth and wipe them dry. Visibly contaminated surfaces should be disinfected with IQ B45 and then wiped with a cloth. Respray cleaned surfaces. The product takes effect within 1 minute in accordance with VAH/DGHM, 30 seconds to inactivate enveloped viruses and 2 minutes to inactivate TB bacteria.

Caution

Flash point in accordance with DIN 51755: 33°C. Maximum application: 50 ml/m².

Chemical composition

IQ B45 contains alcohols and quaternary ammonium compounds. 100 g contains 17 g propan-1-ol, 0.25 g alkyl-benzyl-dimethyl-ammonium chloride 50%, adjuvants and water.

Toxicology

The acute oral and dermal toxicity (LD₅₀) in rats is > 2000 mg/kg of body weight. Therefore, IQ B45 is classified as "non-toxic". In accordance with the results of an in vitro test, IQ B45 is classified as skin-irritating. If the preparation comes into contact with the mucous membranes of the eye, it must also be treated as an irritant. There is no risk of inhalation if the preparation is used as specified.

Ecology

IQ B45 is easily biodegradable according to OECD guideline 301 D. The packing is made of polyethylene and can therefore be exploited both materially and thermally. To recycle, rinse the container with water.

Caution

IQ B45 is classified as "irritant" in accordance with the Directives relating to the classification, packaging and labelling of dangerous substances and preparations. Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness. Keep away from sources of ignition. Do not smoke. Avoid contact with eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.



Description	U/M	Type	Pack Size	Item Code
IQ B45	10 Liter	Can	Each	I 02 008 0010



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