UPTOSPEED Express Updates | SCIENTIQUIPP

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Quality Of Water

For Human Consumption, Sanitation & Hygiene

Drinking water encompasses water used for drinking, cooking and personal hygiene. Water safety and quality are fundamental to human development and well-being. Providing access to safe water is one of the most effective instruments in promoting health and reducing poverty.

Health risks may arise from consumption of water that is contaminated with infectious agents, toxic chemicals, and radiological hazards. Contaminated water and poor sanitation are linked to transmission of diseases such as cholera, diarrhoea, dysentery, hepatitis A, typhoid, and polio. Absent, inadequate, or inappropriately managed water and sanitation services expose individuals to preventable health risks.

In 2010, the UN General Assembly explicitly recognised the human right to water and sanitation. ‘‘Everyone has the right to sufficient, continuous, safe, acceptable, physically accessible, and affordable water for personal and domestic use’’.

Ref:https://www.who.int/india/health-topics/water-sanitation-and-hygiene-wash

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The quality of water is defined by its physical, chemical and biological composition. In order to be considered as drinking water, the following must be absent.

- Substances that impart sensory sensations that generate consumer rejection, such as smell, turbidity, colour, etc.
- Micro-organisms or organic compounds that affects the health of the consumer.

Drinking water quality control is based on the compliance of a series of criteria defined by the current regulations, which are controlled from collection to arrival to the tap. In order to ensure that water arrives in optimum conditions of healthiness, quality and cleanliness, there is a regulation in India established by the Bureau of Indian standards (BIS), with the reference IS 10500, which establishes maximum values for each of the parameters to be evaluated. A series of analytical methods of reference are established and divided into groups according to the type of parameter.

Organoleptic parameters (such as colour, turbidity, etc.), physical-chemical parameters (such as temperature, sodium concentration, aluminium, hardness), parameters related to toxic substances (cadmium, mercury, etc.), microbiological parameters (presence/absence of coliforms, clostridiums, etc.) and parameters related to undesirable substances, need to be evaluated

The evaluation of microbiological substances are evaluated by centrifugation. For this purpose, it is necessary to spin sample volumes of 500ml to make it representative and subject the samples to values of 3200 x g (RCF). The new ROTA 7R V/FM, has a swing out rotor of 4x750ml or a fixed angle rotor of 4x500ml, which avoids having to divide the sample into smaller fractions.

Recommended Centrifuge:



Product – Rota 7R V/FM

ROTA 7R V/FM
(Refrigerated Centrifuge)
PART NO: 100132

ROTOR: 4 X 750mL
(Swing-out Rotor including adapters)
PART NO: 200447

ROTOR: 4x500mL (Fixed Angle Rotor)
PART NO: 200468 | RCF: 10876



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Since the 1980's Scientiquipp (formerly known as Plasto Crafts) has been synonymous with customer-oriented processes and innovative products, such as laboratory devices. Today, we serve as experts and advisors, using our unique knowledge and experience to support laboratories and research institutions around India. The foundation of the company's expertise is its focus on its customers. Scientiquipp's exchange of ideas with its customers results in comprehensive solutions that in turn become industry standards. Scientiquipp will continue this path in the future, to the standard set by the company's founders: that of *enabling the future of medicine.*

European Brushless Technology | CE ISO 9001:2015 Certified | IR | MGM IAF

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