



Dia Pro®

IRRIGATION WATER INHALATION WATER

across AQUA

In 2012, after completing 5 years R&D period, Across Gel® and Across System® products have been launched. In this field, Dia Pro has become one of the well-known companies on the globe, as the first producer of immunohematology tests and equipment in Turkey. As of 2018, sterile water and derivatives, covered by the medical device directive 93/42/EEC, successfully added to the product portfolio, after establishing ultra-pure water and water for injection production line.

WHAT IS ULTRAPURE WATER?

Ultra-pure water is water, partially or completely purified from contaminated substances. Ultra-pure water systems are important component used by most areas processes, especially health industry. Enhanced ultra-pure water systems remove unwanted chemical and microbial contaminants by using double pass reverse osmosis, electro-deionization (EDI), ultrafiltration and UV. This enhanced water purifier systems can decrease conductivity value up to $< 1.3\mu\text{S}$, TOC value up to < 500 ppb, Endotoxin value up to $< 0,25$ IU/ml limits. Ultra-purified water system is equipped with ultrafiltration to remove, endotoxins, DNaz and RNaz which remained from bacteria destroyed by UV. Extremely low Total Organic Carbon (TOC) is the result of the system.

WHAT IS WATER FOR INJECTION (WFI)?

WFI, defined as a water derivative, uses for **distillation** of ultra-pure water, production of parenteral drugs dissolve by water, cleaning of surgical tools and equipment.

The definition of the United States Pharmacopeia (USP) is water containing less than 0.25 IU / ml of endotoxin.

WHAT ARE THE STANDARDS OF ULTRA PURE WATER (PW) AND WATER FOR INJECTION (WFI)?

Table 1: Recommended water quality

#	Parameter	RO feed	After RO	PW	WFI
1	Hardness(PPM CaCO3)	≤ feed water	< 1	< 1	< 1
2	TOC (ppb)	≤ feed water	< 500	< 500 (online)	< 500 (online)
3	Endotoxin (EU/ml)	NA	NA	NA	< 0,25
4	Microbial total count (cfu/ml)	< 500	< 200	< 100	< 10 cfu/100 ml
5	Free Chlorine (ppm)	< 0,05	< 0,05	< 0,05	< 0,05
6	Pseudomonas (cfu/100 ml)	< 1	< 1	< 1	< 1
7	E. coli (cfu/100 ml)	< 1	< 1	< 1	< 1
8	Total coliforms, Fungus, (cfu/100ml)	< 1	< 1	< 1	< 1
9	Conductivity (µS/cm)	Like feed water	< 10	< 1,3 (online)	< 1,3 (online)

Conductivity shall be measured uncompensated at 25 °C according to USP.



Ref. No 600120

Ref. No 600110



Ref. No 635052

Ref. No 615052 60ml
625052 120ml

For decontamination of the product from living microorganisms, by providing enough contact with saturated water steam at a certain temperature with each point of the equipment to be sterilized, ensuring in European standards no: EN 556 and decontaminate from microorganisms at SAL 10⁻⁶ safety level (acceptable for reliable sterilization level)

WHAT IS STEAM STERILIZATION?



across AQUA IRRIGATION WATER

Irrigation solution is used for general-purpose irrigation, sterilization with washing or rinsing, apyrogen and dilution processes which using non-solutes water is suitable. In addition; It can also be used as pharmaceuticals adjunct or supplement to prepare nutritional mixes that are not given intravenously. Distilled water is not advised to use for surgical operations that occurs easy absorption, due to not containing solutes and during irrigation because of systematically absorption causes hemolysis.

Ref. Number	Product Name
600110	Across Aqua Sterile Distilled Water, Irrigation Solution, 1000 ml
600120	Across Aqua Sterile Distilled Water, Irrigation Solution, 500 ml





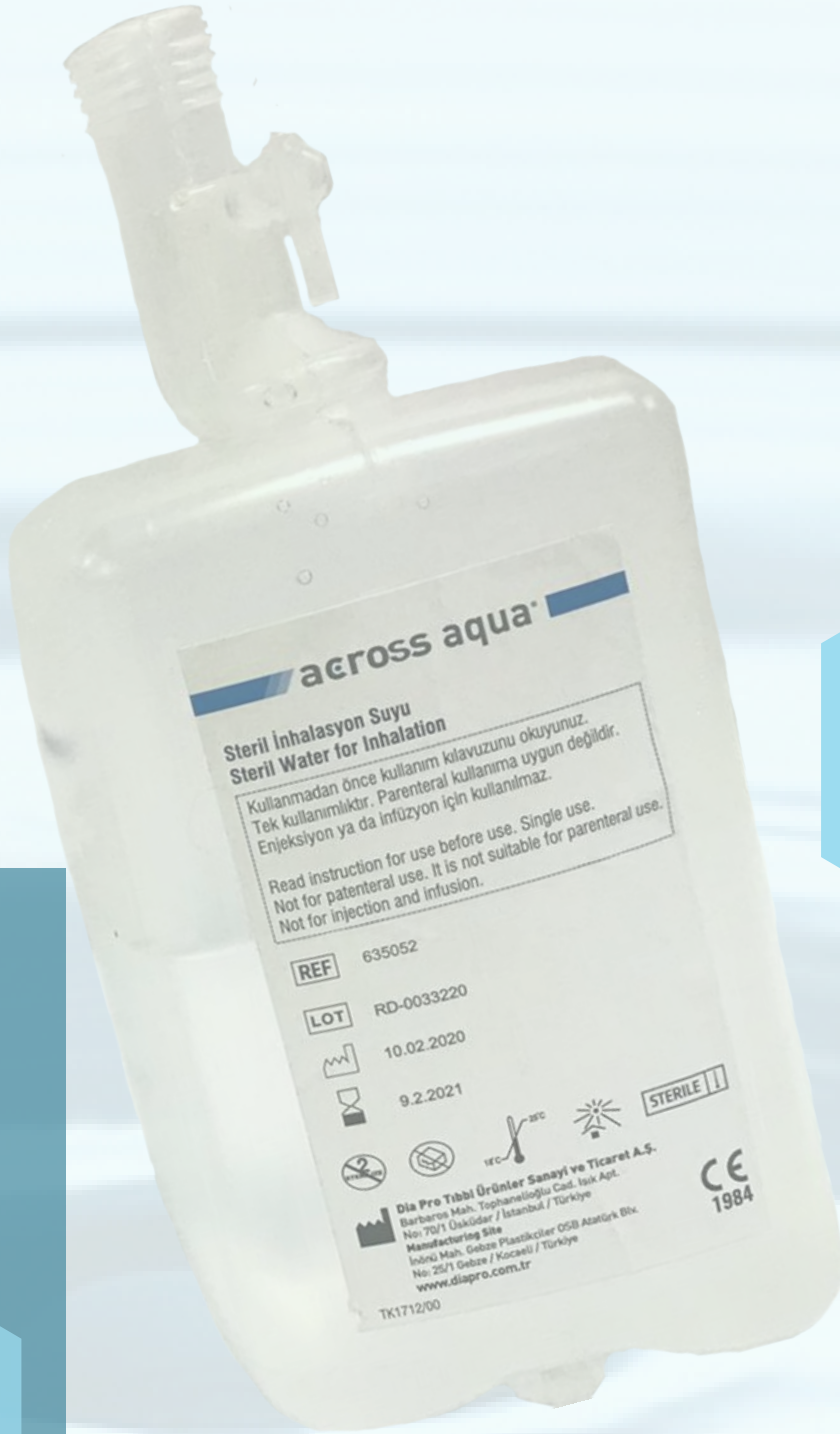
Quality of life should be considered for the patients have chronic diseases. Therefore, humidification is important for the patients who need oxygen support to reduce mucosal damage. Oxygen flowmeter is used as humidifier chamber. In patients receiving respiratory support, it acts as a prophylaxis that provides comfort and relief to the patient by preventing damage to mucosal membranes while providing moistening of the air taken through bubble humidification. It is indicated for use in adults and paediatric patients. Patients with mouth breathing, asthma, nasal cannula, nosebleeds or subjective dryness can all benefit from humidification during oxygen therapy. It cannot be used again after inhalation application.

across AQUA INHALATION WATER

Ref. Number
635052

Product Name
Across Aqua Sterilized Inhalation Water





Dia Pro[®]

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