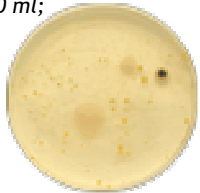
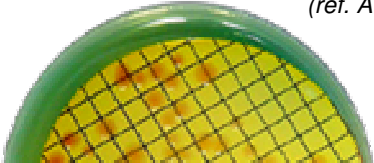
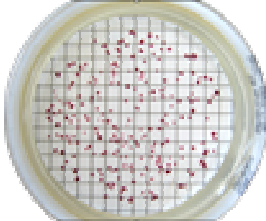
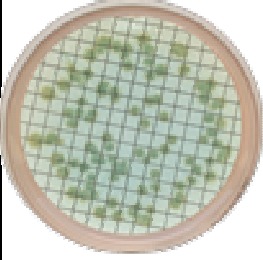
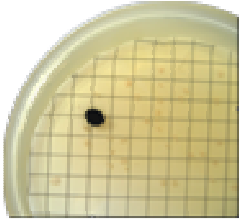
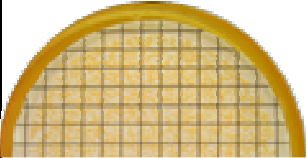



Waters microbiological controls in hospitals

Analysis and corresponding Standards	Technique used	Culture medium used, incubation conditions and appearance of the colonies to be enumerated	Additional identification techniques
<p>Enumeration of culturable micro-organisms at 22° C and at 36° C</p> <p>EN ISO 6222</p>	<p>Inclusion (detection in 1ml)</p> <p>or filtration (detection in 100ml)</p>	<p>Nutrient Agar Water medium (ref. AEB151902: 500g ; ref. AEB621907: flask 200 ml; ref. AEB621906: flask 100 ml)</p> <p>Incubation at 22° C and at 36° C. Enumeration of all the colonies at 48h (36° C) and 72h (22° C)</p> <p>For haemofiltration water, Incubated R2A medium 7 days at 20° C</p> 	<p>None</p>
<p>Escherichia coli and total coliforms</p> <p>NFT 90-414/ ISO 9308-1</p>	<p>Filtration of 100 ml</p>	<p>TTC Tergitol medium (ref. AEB121461 10 plates Ø 55 mm)</p>  <p>Enumeration at 24h and 48h of yellow, orange colonies corresponding to a yellow halo under the membrane.</p>	<p>Oxidase detection (absent for coliforms) For <i>E. coli</i>, indole production at 44° C in Tryptophane broth (ref. AEB111373 3ml tubes 100 tubes)</p>
<p>Enterococci</p> <p>NFT 90-416/ ISO 7899-2</p>	<p>Filtration of 100 ml</p>	<p>Slanetz medium (ref. AEB122661 10 plates Ø 55 mm)</p> <p>Enumeration at 48h of rounded colonies with red, brown or pink colour at the centre or on the whole</p> 	<p>Transfer of membrane on bile aesculin medium (Enterosele: ref. AEB AEB520360 20 plates Ø 90 mm) (brown to dark coloured intestinal enterococci)</p>
<p>Pseudomonas aeruginosa</p> <p>NF EN 12780</p>	<p>Filtration of 100 ml</p>	<p>Pseudomonas CN Medium (ref. AEB AEB520251N 10 plates Ø 55 mm)</p> <p>Enumeration at 24h and 48h of the colonies producing a blue-green or brown-reddish pigmentation and/or fluorescent under UV</p> 	<p>Subculture on nutritive agar (ref. AEB621907 6 flasks 200 ml) and oxidase detection. If positive biochemical identification.</p>
<p>Spores of ASR</p> <p>NF EN 26461</p>	<p>Heating of 50ml 10 min at 80° C</p> <p>Filtration then inclusion</p>	<p>TSC Medium (ref. AEB122899E 100 tubes 20 ml)</p> <p>(Tryptone Sulfite medium) Enumeration at 48h of dark colonies surrounded by a dark halo</p> 	<p>None</p>
<p>Staphylococcus aureus</p> <p>NF T 90-421</p>	<p>Filtration of 100 ml</p>	<p>Chapman Medium (ref. AEB520510 20 plates Ø 90 mm)</p> <p>Enumeration at 24h and 48h of colonies surrounded by a yellow halo</p> 	<p>Usual bacteriological identification</p>
<p>Legionella spp. & Legionella pneumophila</p> <p>NFT 90-431</p>		<p>GVPC Medium (ref. AEB5201440N 20 plates 90 mm)</p> <p>Incubation at 37° C (moist atmosphere) Enumeration at 3, 5 and 10 days of grey/light blue colonies.</p> 	<p>Subculture of suspected colonies on BCYE with and without α cysteine agar (ref. AEB121441 and AEB121442 10 plates 90 mm) and on Blood agar (TCS sang ref. AEB522870 20 plates 90 mm)</p>