

TRANSLATION

THE NATIONAL UNIVERSITY OF NICARAGUA
Center for the Research of Aquatic Resources of Nicaragua

REPORT ON THE EFFICEINCY OF CERAMIC FILTERS EN THE
REMOVAL OF ORANISISMS WHICH ARE INDICATORS OF
CONTAMINATED WATER
(COLIFORMES, E. COLI AND ESTREPTOCOCOS FECALES).

FIRST TEST

Percentage of Removal				
Filter Code number	Coliforms totales	Coliforms fecales	Estreptococos Fecales	E. coli
Control sample of contaminated water per ml	79000 ufc100ml	68000 ufc100ml	2800 ufc100ml	550 ufc/100m
R - 83	100%	100%	100%	100%
R - 128	99.88%	100%	100%	100%
R - 168	100%	100%	100%	100%
R - 213	100%	100%	100%	100%
R - 214	100%	100%	100%	100%
R - 215	100%	100%	100%	100%
R - 223	100%	100%	100%	100%
R - 308	100%	100%	100%	100%

Second tests

Percentage of Removal				
Filter code Number	Coliforms totales	Coliforms fecales	Estreptococos Fecals	E. coli
Control sample of contaminated water per ml	47000 ufc100ml	46500 ufc100ml	2230 ufc100ml	46500 ufc100ml
R - 83	100%	100%	99.88%	100%
R - 128	99.9%	100%	99.65%	100%
R - 168	100%	100%	99.83%	100%
R - 213	100%	100%	99.96%	100%
R - 214	100%	100%	100%	100%
R - 215	100%	100%	99.96%	100%
R - 223	99.88%	99.9%	99.87%	99.9%
R - 308	98.52%	100%	99.51%	100%