

Date: July 25, 2002

From: Julia Oxford, PhD

To: Sharon Kleyne, Rogue Valley Natural Springs

Re: **Use of Bio-Logic Aqua® in tissue-culture media**

In our laboratory, we have used Bio-Logic Aqua® as the water source for maintaining our cells in culture. We have compared this water to standard tissue-culture grade Milli-Q water (Millipore, Mississauga, Canada). Standard procedures were followed for the reconstitution of defined medium as directed by Gibco BRL Life Technologies, with a final 0.2-micron membrane filtration step to assure sterility.

Cell cultures were monitored for cell viability, attachment, morphology and proliferation. The ability of the cells to attach, proliferate, and remain viable with characteristic morphology when cultured in Bio-Logic Aqua® containing medium was equal to that of standard medium. In addition, cells maintained in both standard medium and medium made with Bio-Logic Aqua® demonstrated greater cell viability, attachment and proliferation than cells maintained in culture medium prepared with tap water.

To date, we have looked at several cell types, including human skin fibroblasts and human gingival fibroblasts.