



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

Name(s) C. Maritta Jones	Project Number J1113
Project Title Bacteria! Don't Drink It!	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals To see if Brita filters contained coliform bacteria.</p> <p>Methods/Materials Water samples collected in sterile containers from seven sources, including a new Brita filter and an expired Brita filter. Samples were taken to the lab. One Colilert tablet was added to each container and shaken until dissolved. Samples were incubated for 24 hours at 35 degrees Celsius, then placed under an ultraviolet light to see if samples turned blue.</p> <p>Results The new Brita filter was negative for total coliform and negative for E.coli coliform. The expired Brita filter tested positive for total coliform but negative for E.coli coliform. Three of the remaining samples tested negative for both total coliform and E.coli coliform. The last two samples tested positive for total coliform but negative for E.coli coliform.</p> <p>Conclusions/Discussion Water sample from the new Brita filter don't contain coliform bacteria. Water sample from the expired Brita filter contained coliform bacteria and may not be safe to drink.</p>	
Summary Statement Testing Brita filters for coliform bacteria.	
Help Received Used lab equipment at Alpha Analytical Laboratories, Inc. under the supervision of a scientist named Julie. Teacher gathered samples from her spring and her well for me to test.	