

FOR IMMEDIATE RELEASE  
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**Microcheck, Inc. Identifies Three Different Bacteria  
on Dental Crowns Manufactured in China**

**Northfield, VT**

Microcheck recently received two dental crowns manufactured by two different labs in China. The crowns were aseptically transferred to a sterile growth medium and incubated on a reciprocal shaker at 28°C. After two days incubation the liquid media were serially diluted and plated on solid media to isolate any microbial colonies that were on the crowns. The three different colony-forming types of bacteria were identified by their DNA using Microcheck's Applied Biosystems 3130xl Genetic Analyzer. One of the organisms identified is *Rothia amarae*. This organism is a normal inhabitant of the human oral cavity. It is present in saliva and is isolated most frequently from supragingival dental plaque. According to the International Journal of Systematic and Evolutionary Microbiology (2002), 52, 2257-2260 published online, *Rothia amarae* was named as a species that was capable of deodorizing dung and sewage and was isolated from a sludge sample taken from a foul water sewer. The second organism is a species of *Paenibacillus*, the relatively new name for several species of *Bacillus*. The primary habitat of the majority of *Paenibacillus* species is soil. From soil, these aerobic spore formers can contaminate everything by dust or other means. They may play an important role in secondary habitats in degrading polymers or other chemical compounds. As a result, *Bacillus* species are especially important as food spoilage organisms. Finally, the third organism is a species of *Micrococcus*. The primary natural habitat is mammalian skin. The secondary habitat is meat and dairy products, soil and water. *Micrococcus* is nonpathogenic, however some strains may be opportunistic pathogens. Additional crowns from China are now being checked for microbial contaminants in a side-by-side comparison with crowns manufactured in the United States.

Microcheck is an independent microbiology laboratory specializing in microbial identification of bacteria, fungi, yeasts, and actinomycetes. The company supports quality control programs for the pharmaceutical, medical device, personal health, sterile manufacturing/packaging, agriculture/food, raw materials, water testing, research, bioremediation, and other industries. Well over 200,000 isolates have been identified to species at Microcheck since 1988. Microcheck's scientific teams are experts in bacterial identification, fungi identification, gene sequencing, environmental monitoring, and microbiology testing. For more information, call (866) 709-6600 or visit [www.microcheck.com](http://www.microcheck.com).

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