



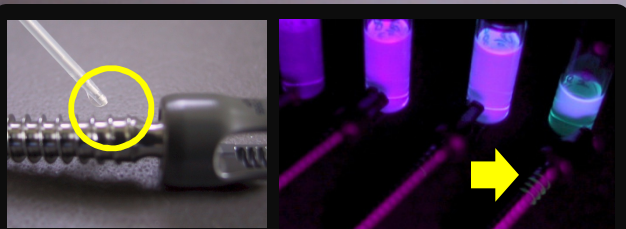
Testing Medical Implants Using Fluorescent Penetrant Oils

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A medical company coats stainless steel parts with fluorescent oils after the manufacturing process to prevent the parts from corroding and to ensure proper quality controls of their products. The parts must be free of oil prior to using them in the human body. Sitelab helped the client develop a fast and reliable test method to assist with their cleaning and inspection efforts. Samples of different oils and parts were sent to Sitelab for analysis to see which oils fluoresced the most and which ones produced the lowest detection limits.



Sitelab's TD-500D analyzer was calibrated to the oil of interest. In some cases, clean parts were detected down below 10 ppb.



Samples spiked with different concentrations of oils can be visible with a UV black light.



Samples are extracted in solvent. Screws, plates and other parts were tested for oil residue.