

MYCOPLASMA ASSAY REQUEST/RESULT FORM

DATE:

LAB/PI:

PTAO:

PERSON REQUESTING:

Phone:

Email:

Sample ID

Test Results

Sample 1:

Sample 2:

Sample 3:

Sample 4:

Assay performed on(date)

By:

Preparation of Samples for Mycoplasma Testing

Samples of the culture medium should be taken before any further processing steps, such as trypsinization. Cultures should be free of any antibiotics or antimycotics for 2-3 passages and approximately 80% confluent. Transfer at least 10ml of cell culture or culture supernatant into a 15ml centrifuge tube and pellet any cells at 1500 rpm (200Xg) for 5 minutes. Transfer at least 10ml of cleared supernatant into a sterile tube and label it with SAMPLE NAME, LAB, and PHONE NUMBER. Bring samples to the Tissue Culture Facility and fill out this request form.

Description of Assay:

The MycoAlert System detects mycoplasma in cell cultures using the sensitive luminescent assay for ATP. This is a selective biochemical test that exploits the activity of mycoplasmal enzymes. The viable mycoplasma are lysed, and the enzymes react with the substrate, catalyzing the conversion of ADP to ATP. By Measuring ATP before and after addition of the substrate, a ratio is obtained which indicates the presence or absence of mycoplasma. For more information about submission and testing contact Dr. Nena Fox 924-2501 nsf8u@virginia.edu