

# *Organism and Part Check in*



## **This check-in is for:**

A whole organism

## **Organism name:**

African Green monkey COS-7 Cell line

## **What is the risk group of this organism?**

Risk group Two

## **What will you use this organism/part for?**

We want to model the rate at which our genetically engineered bacterial culture (E. Coli Nissle) grows and colonizes the gut, and to characterize its expression of 5-HTP, a serotonin precursor that acts as an anti-depressant. Monkey Kidney Cell Line will be used to initially test the Microfluidics device as they are very similar to Human Intestinal Epithelial cells Caco-2 which will be tested in further experiments. Experiments will be carried to determine the optimum seeding cell density of the cells, and the time they need to adhere.

## **How will you acquire this organism/part?**

We will acquire the Cell line from a culture collection at UCL.

## **Are you taking any additional safety precautions when you use this organism/part?**

This cell line will be handled in a specialised lab at the UCL Biochemical Engineering building under the constant supervision of PhD students and Post-doctorates. Furthermore, all the work will be done under sterile laminar flow. Mycoplasma testing will be carried out as well.