

Genomics and Proteomics Core Facilities
- Contamination Control

Head Dr. Michael Pawlita **Project Manager** André Leischwitz

Im Neuenheimer Feld 242
D-69120 Heidelberg
Phone +49.6221.42 49 34
Fax +49.6221.42 49 32
http://www.dkfz.de/gpcf/contamination_control00.html

***Mycoplasma* removal in cell cultures**

The following protocol is designed to remove *Mycoplasma* from cell cultures*. The antibiotics (see below) should NOT be applied together as this will substantially harm your cells. We recommend treating each affected cell line in parallel using the following three antibiotics.

Material:

Name	Company	Cat. Nr.
Mycoplasma Removal Agent (MRA)	MP BIOMEDICALS	0930500
Ciprofloxacin Hydrochloride	biomol	LKT-C3263.25
BM-Cyclin	Sigma Aldrich	10799050001

Procedure:

- Split your *Mycoplasma*-positive cell line in three 5ml aliquots (one aliquot per antibiotic). Add the antibiotic according to the manufacturer's instructions.
 - **Monolayer:**
 - Allow the cells to grow 4-8h
 - Remove medium
 - Wash with PBS
 - Add antibiotic-containing medium to cells
 - **Suspension culture:**
 - Centrifuge, 5-10 min. at 1,500 rpm
 - Resuspend cell pellet in antibiotic-containing medium
 - After 3-4 days change the antibiotic-containing medium

Duration of treatment: 2 weeks

After the treatment: Grow the cells without antibiotics for 2 weeks, then repeat *Mycoplasma* test

* the GPCF accepts no liability for the success of this protocol.