

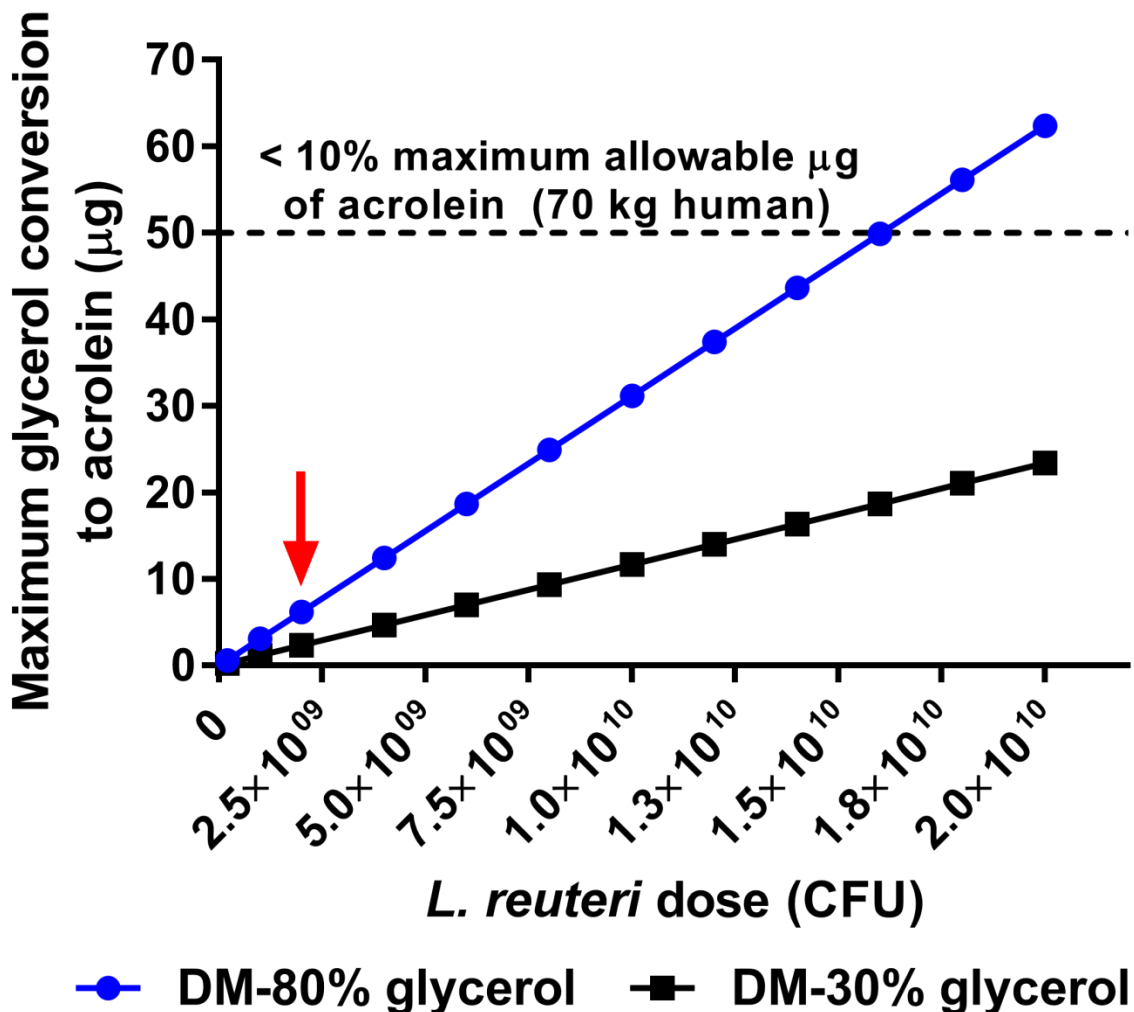


Figure S7. Maximum conversion of DM-provided glycerol to acrolein did not result in toxic levels of acrolein. The World Health Organization (WHO) recommends ingestion of no more than 7.5 µg/kg of body weight of acrolein per day. Assuming 100% conversion of available glycerol provided via DMs into acrolein by *L. reuteri*, the dosage of *L. reuteri* and DM-glycerol utilized in this work (red arrow) resulted in a maximum of 6.24 µg acrolein produced. The dashed line (50 µg acrolein) represents < 10% of the daily allowable amount of acrolein for a 70 kg human.