

SUPPLEMENTARY MATERIAL

For

Interactions of Organic Acids with *Salmonella* Strains from Feedlot Water-Sprinkled Cattle

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Figure S1 through Figure S9, pH vs. MIC_M for the individual *Salmonella* serovars in acetic, citric, lactic and propionic acids.

Figure S10 through Figure S18, undissociated acetic, citric, lactic and propionic acids vs. MIC_M for the individual *Salmonella* serovars.

Figure S19 through Figure S27, dissociated acetic, citric, lactic and propionic acids vs. MIC_M for the individual *Salmonella* serovars.

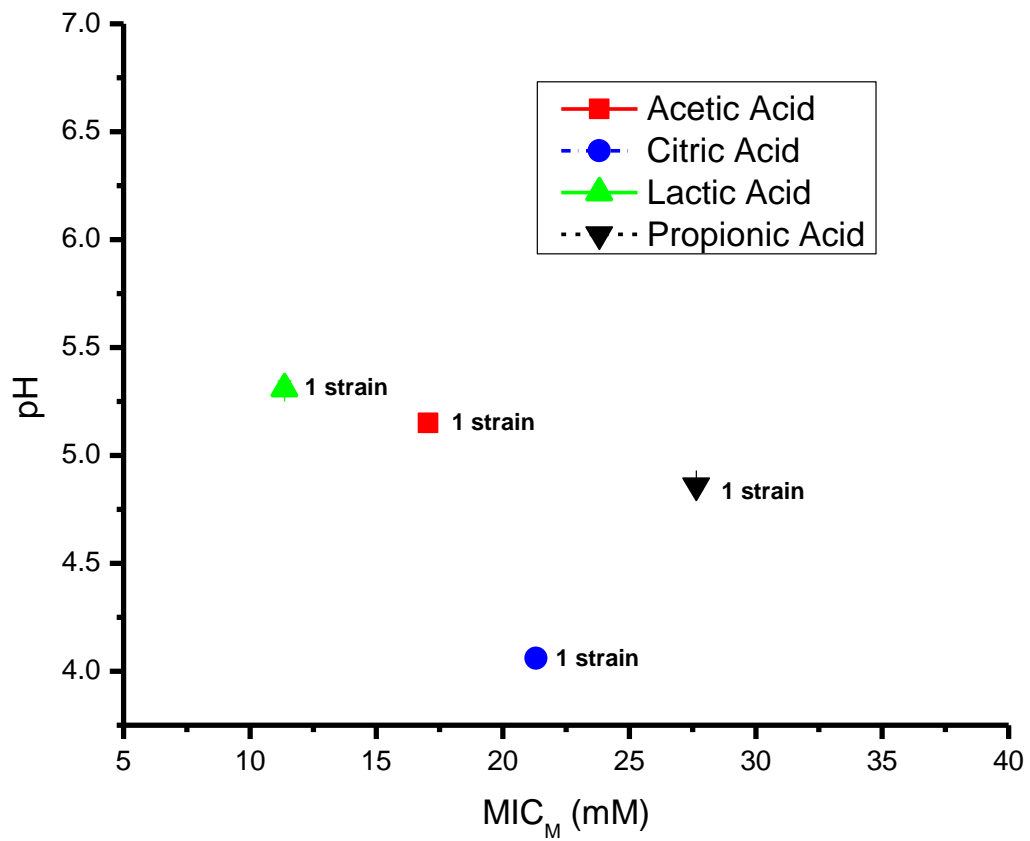


Figure S1: pH at the MIC_{S_M} of the one *Salmonella* serovar Anatum hide strain in acetic, citric, lactic and propionic acids. The error bars represent \pm standard deviation of three pH measurements.

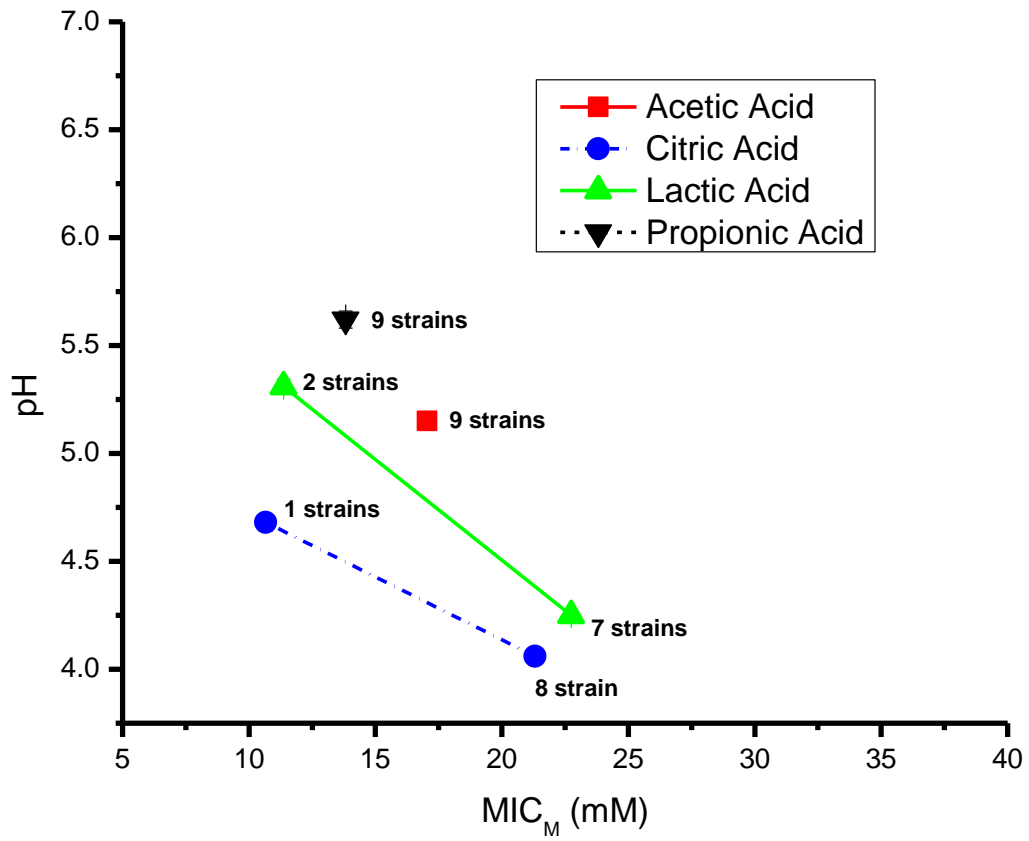


Figure S2: pH at the MIC_{S_M} of 9 *Salmonella* serovar Cerro hide strains in acetic, citric, lactic and propionic acids. The error bars represent ± standard deviation of three pH measurements.

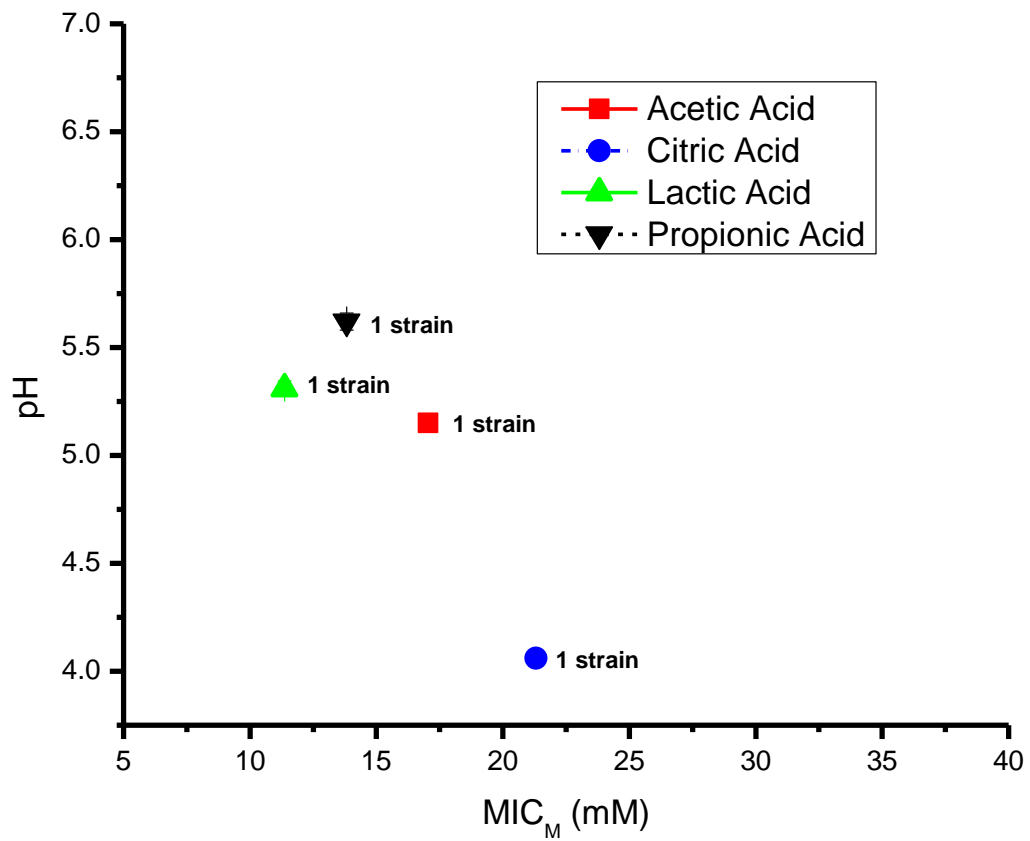


Figure S3: pH at the MIC_{S_M} of the one *Salmonella* serovar Gaminara hide strain in acetic, citric, lactic and propionic acids. The error bars represent ± standard deviation of three pH measurements.

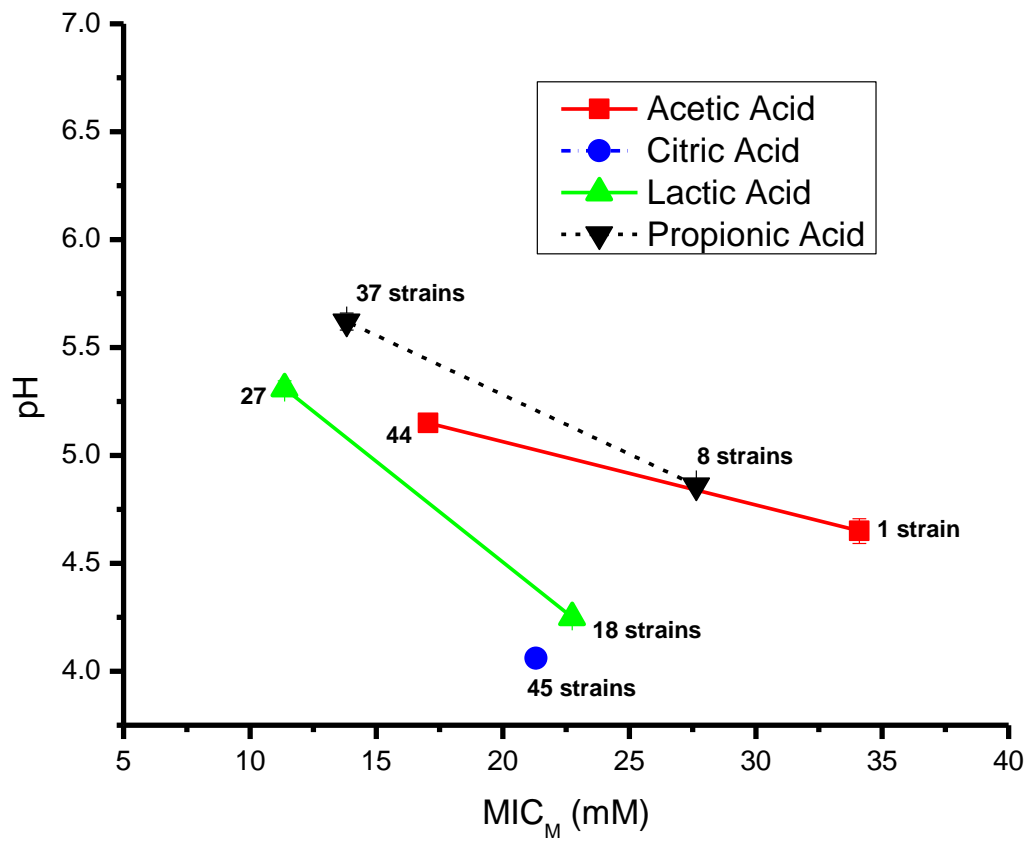


Figure S4: pH at the MIC_{S_M} of 45 *Salmonella* serovar Kentucky hide strains in acetic, citric, lactic and propionic acids. The error bars represent \pm standard deviation of three pH measurements.

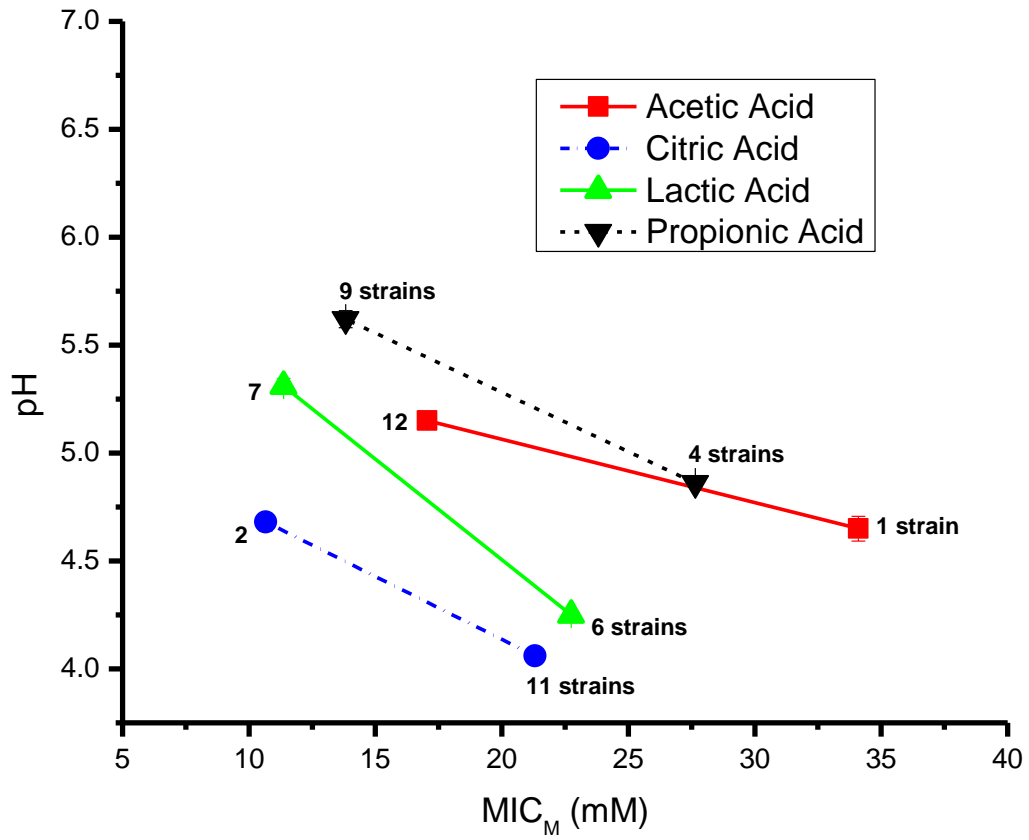


Figure S5: pH at the MIC_{S_M} of 13 *Salmonella* serovar Meleagridis hide strains in acetic, citric, lactic and propionic acids. The error bars represent \pm standard deviation of three pH measurements.

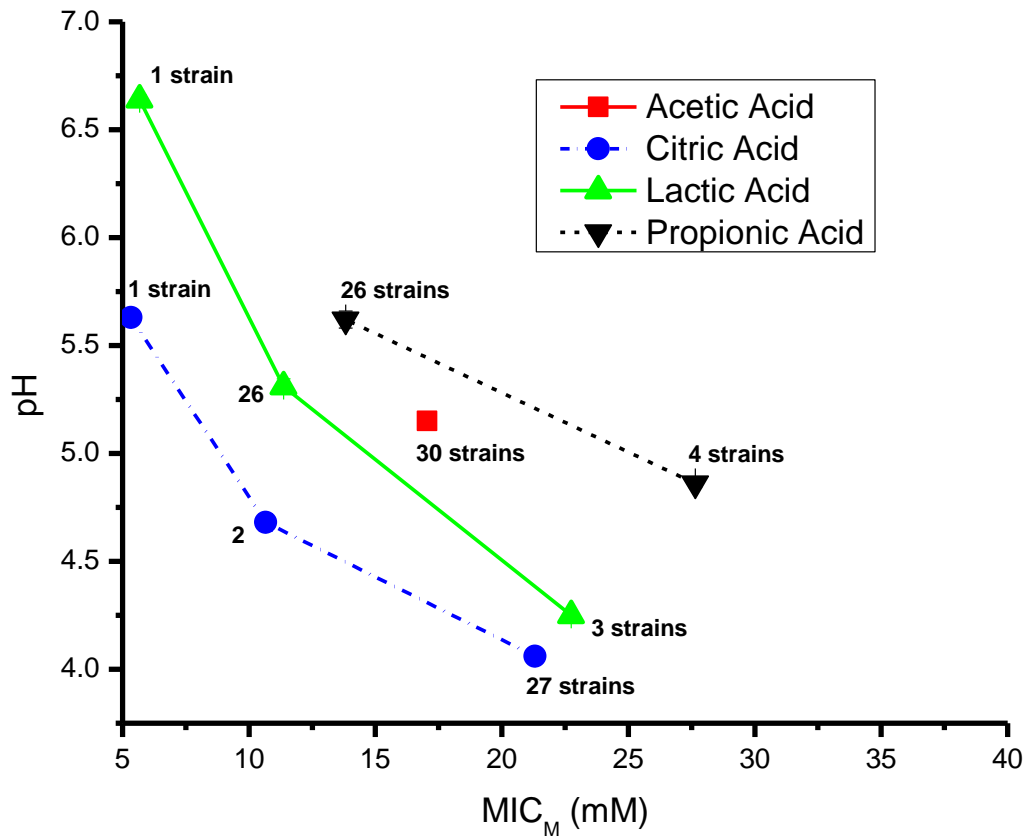


Figure S6: pH at the MIC_{S_M} of 30 *Salmonella* serovar Muenster hide strains in acetic, citric, lactic and propionic acids. The error bars represent \pm standard deviation of three pH measurements.

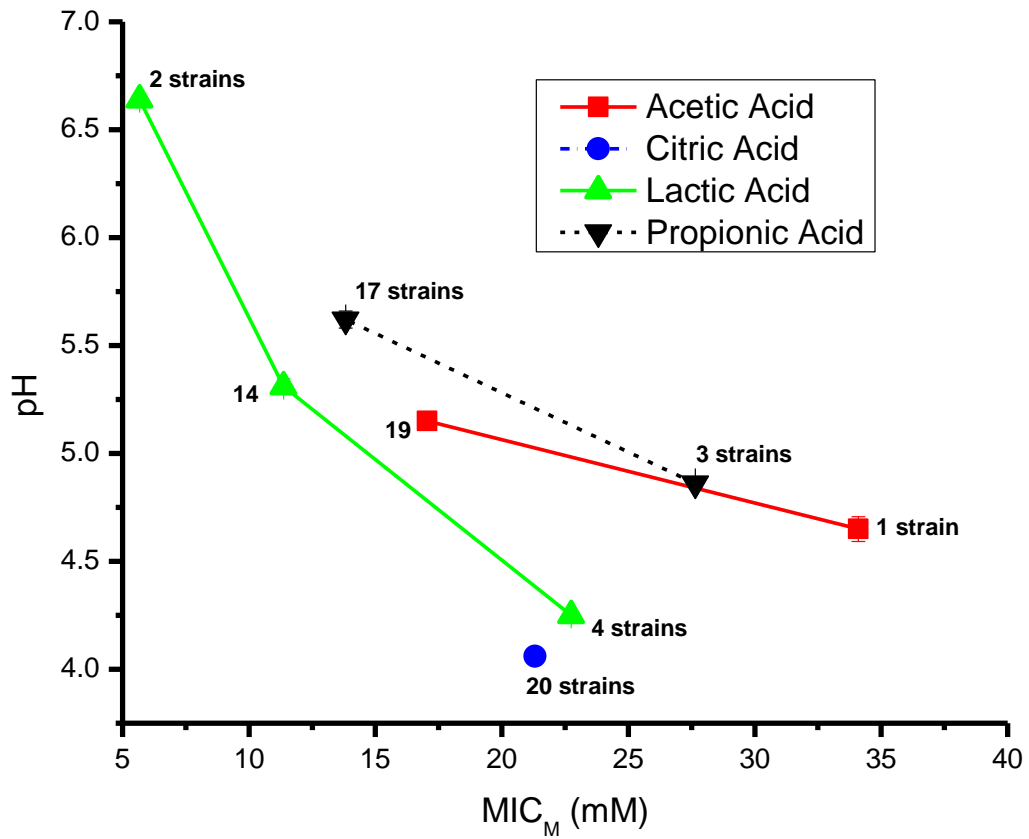


Figure S7: pH at the MIC_{S_M} of 20 *Salmonella* serovar Kentucky feces strains in acetic, citric, lactic and propionic acids. The error bars represent \pm standard deviation of three pH measurements.

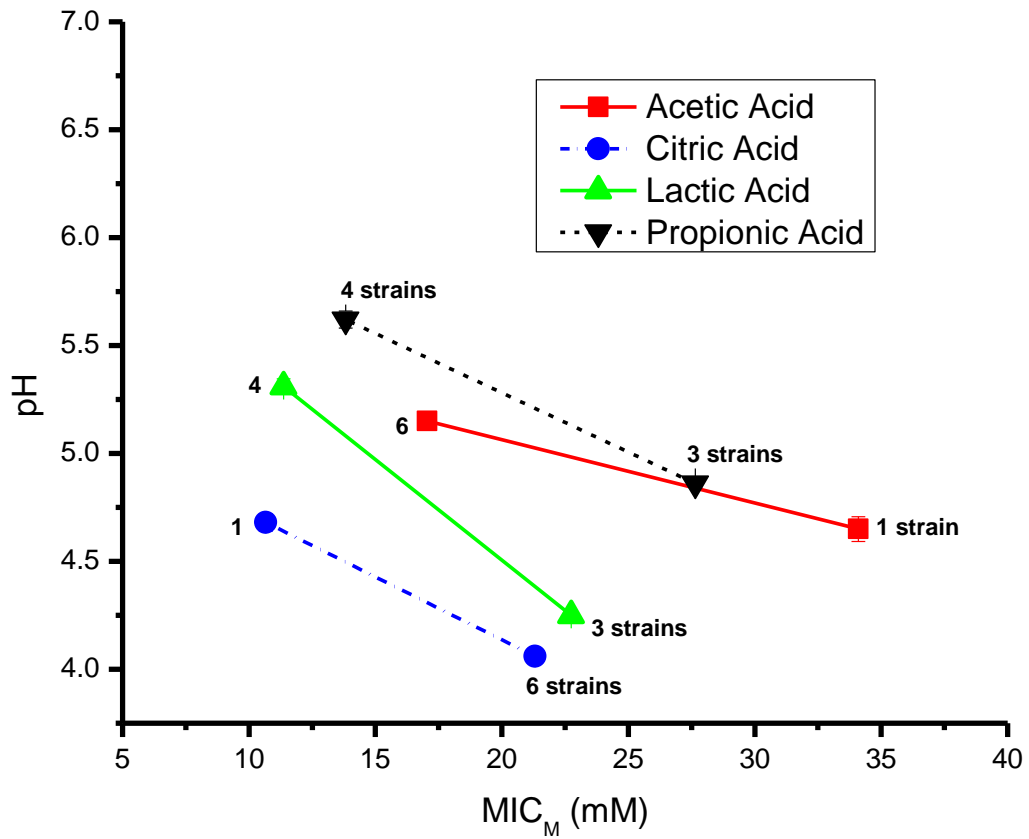


Figure S8: pH at the MIC_{S_M} of 7 *Salmonella* serovar Meleagridis feces strains in acetic, citric, lactic and propionic acids. The error bars represent \pm standard deviation of three pH measurements.

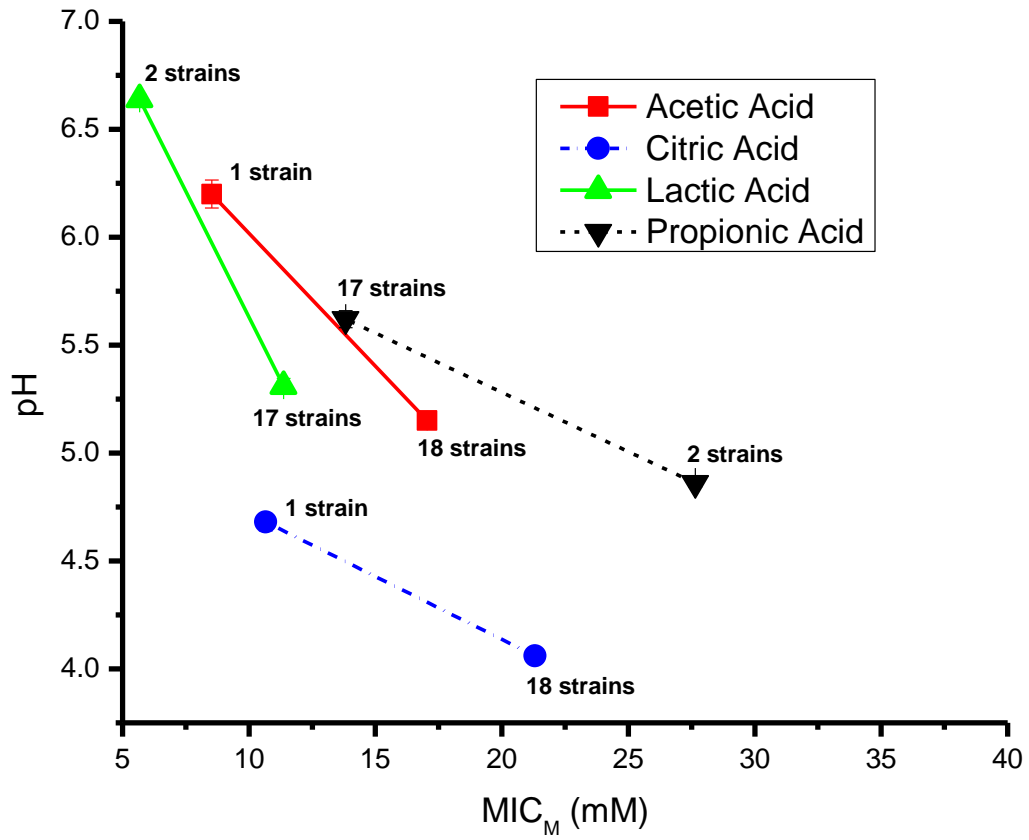


Figure S9: pH at the MIC_{S_M} of 19 *Salmonella* serovar Muenster feces strains in acetic, citric, lactic and propionic acids. The error bars represent ± standard deviation of three pH measurements.

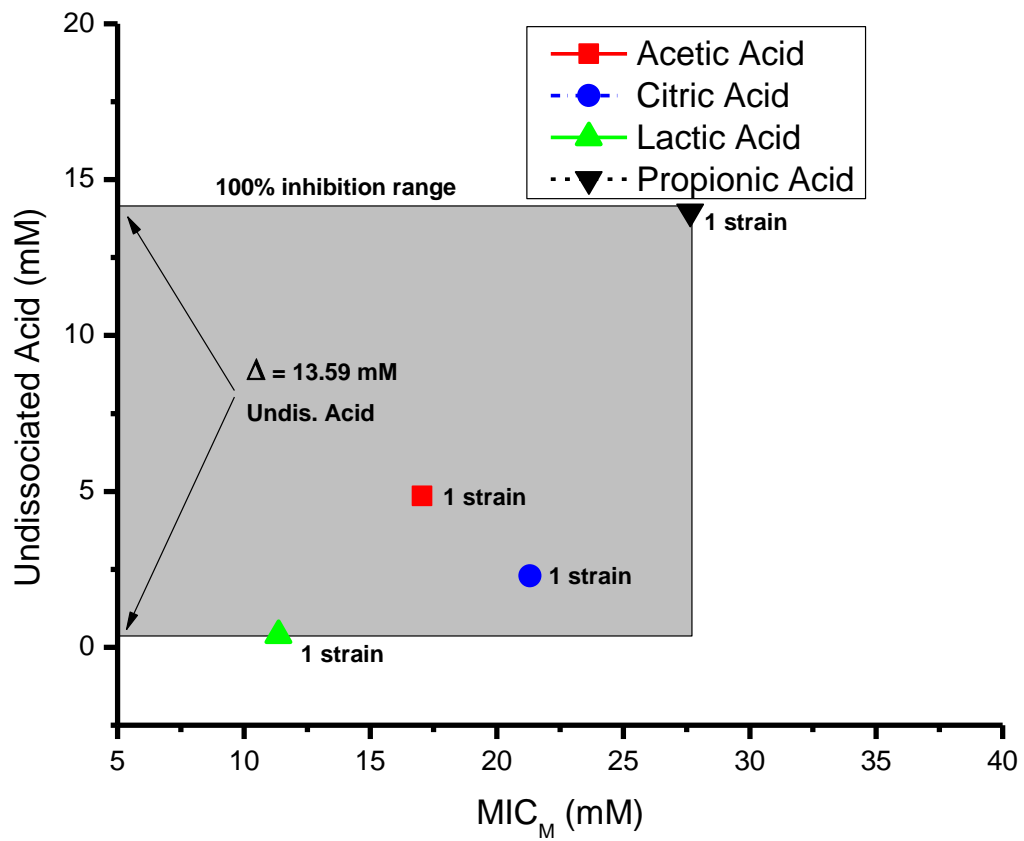


Figure S10: Concentrations of the undissociated acetic, citric, lactic and propionic acids at the MIC_M for the one *Salmonella* serovar Anatum hide strain.

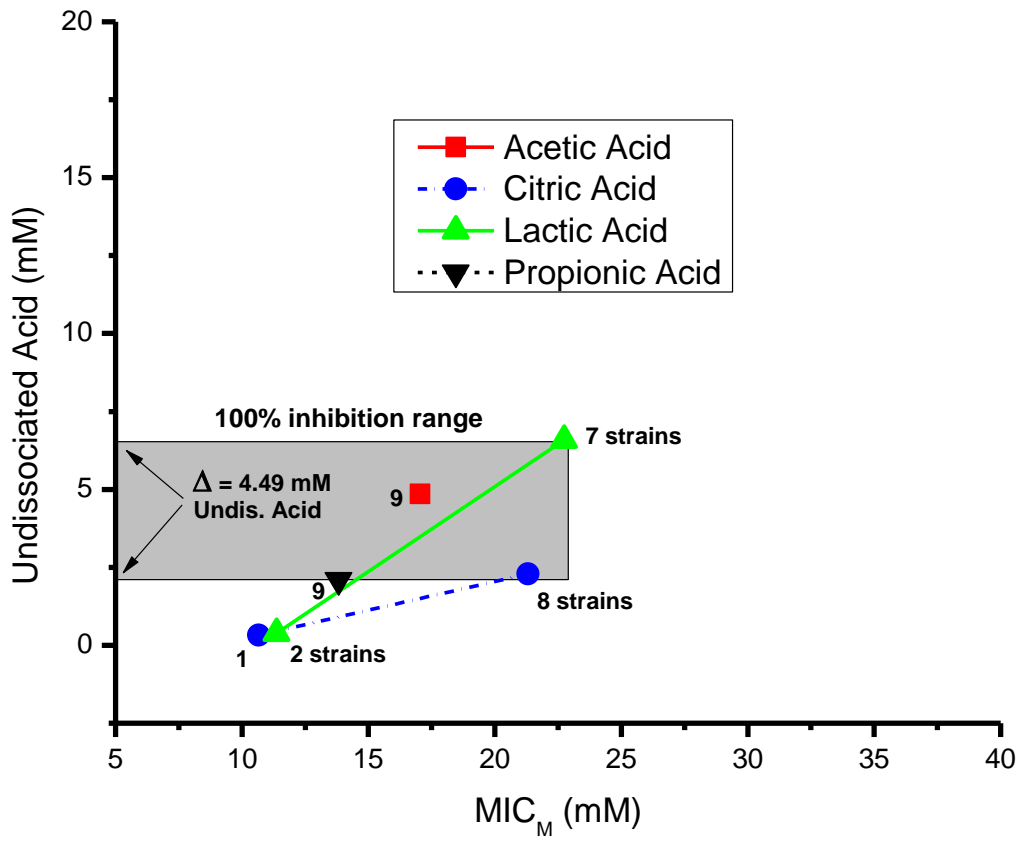


Figure S11: Concentrations of the undissociated acetic, citric, lactic and propionic acids at the MIC_M for 9 *Salmonella* serovar Cerro hide strains.

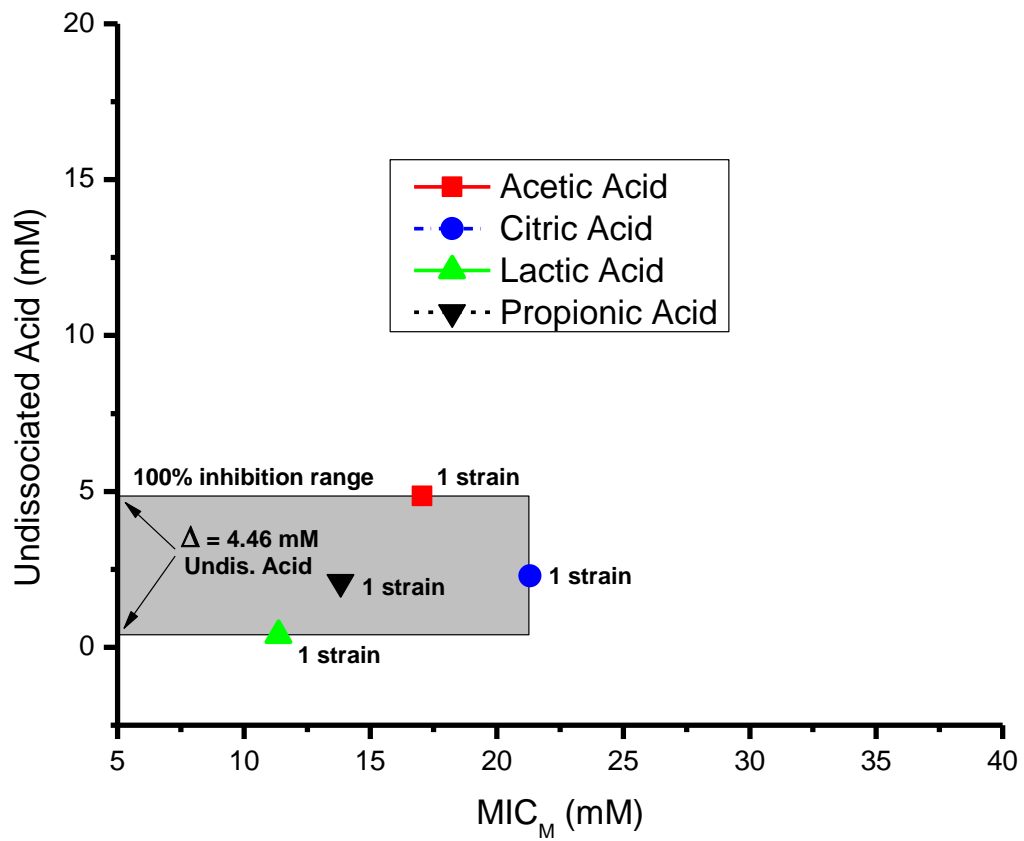


Figure S12: Concentrations of the undissociated acetic, citric, lactic and propionic acids at the MIC_M for the one *Salmonella* serovar Gaminara hide strain.

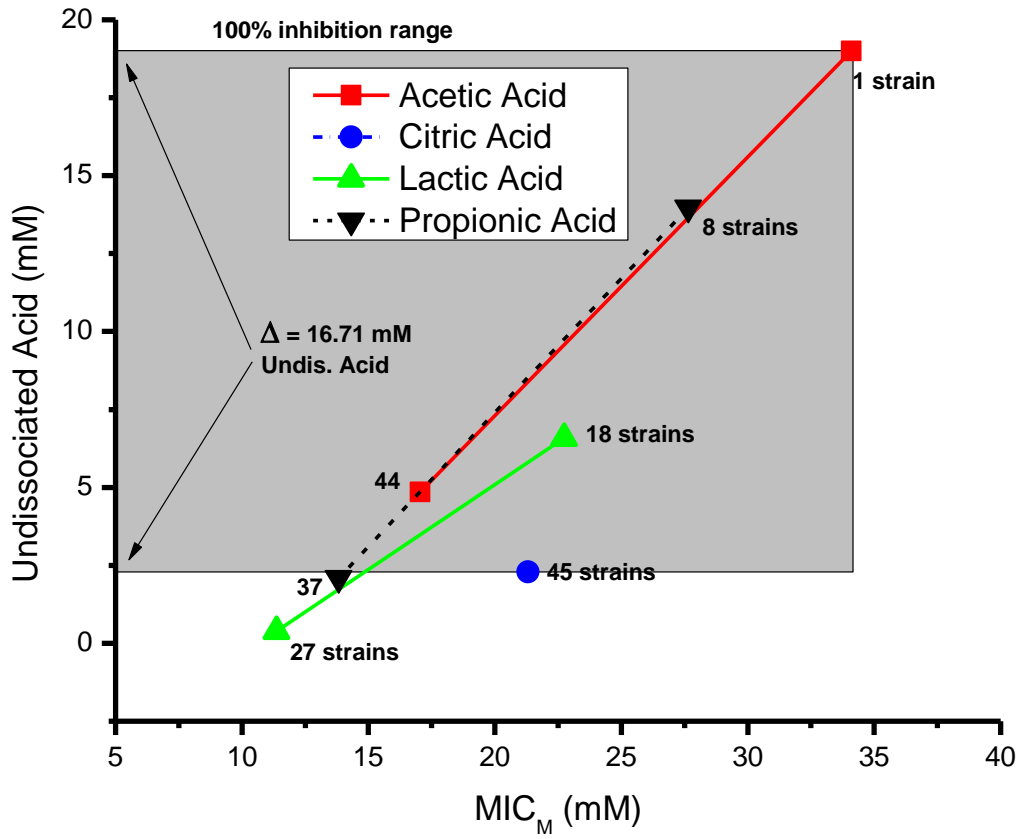


Figure S13: Concentrations of the undissociated acetic, citric, lactic and propionic acids at the MIC_M for 45 *Salmonella* serovar Kentucky hide strains.

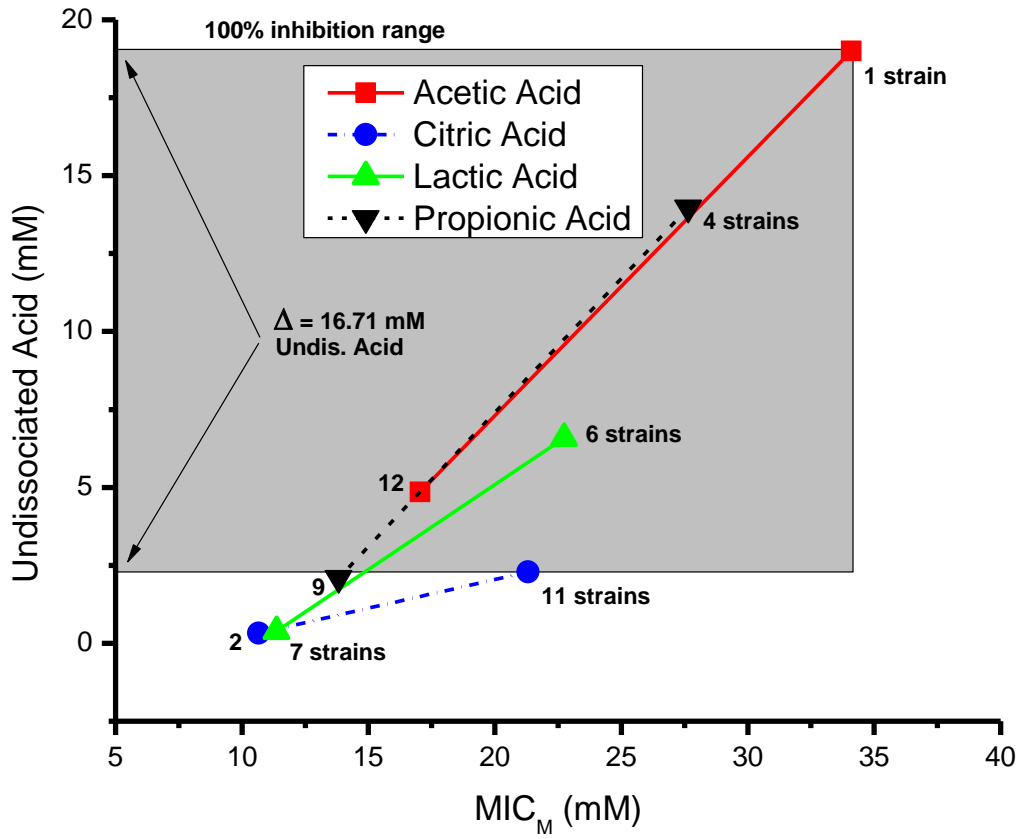


Figure S14: Concentrations of the undissociated acetic, citric, lactic and propionic acids at the MIC_M for 13 *Salmonella* serovar Meleagridis hide strains.

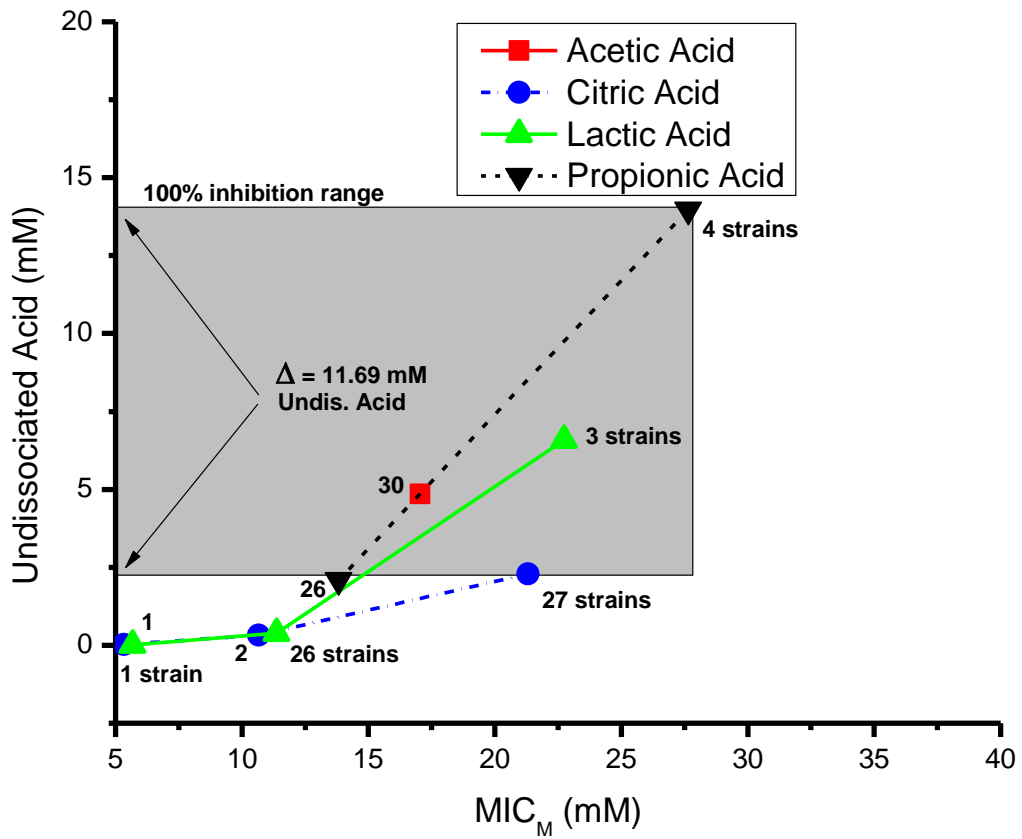


Figure S15: Concentrations of the undissociated acetic, citric, lactic and propionic acids at the MIC_M for 30 *Salmonella* serovar Muenster hide strains.

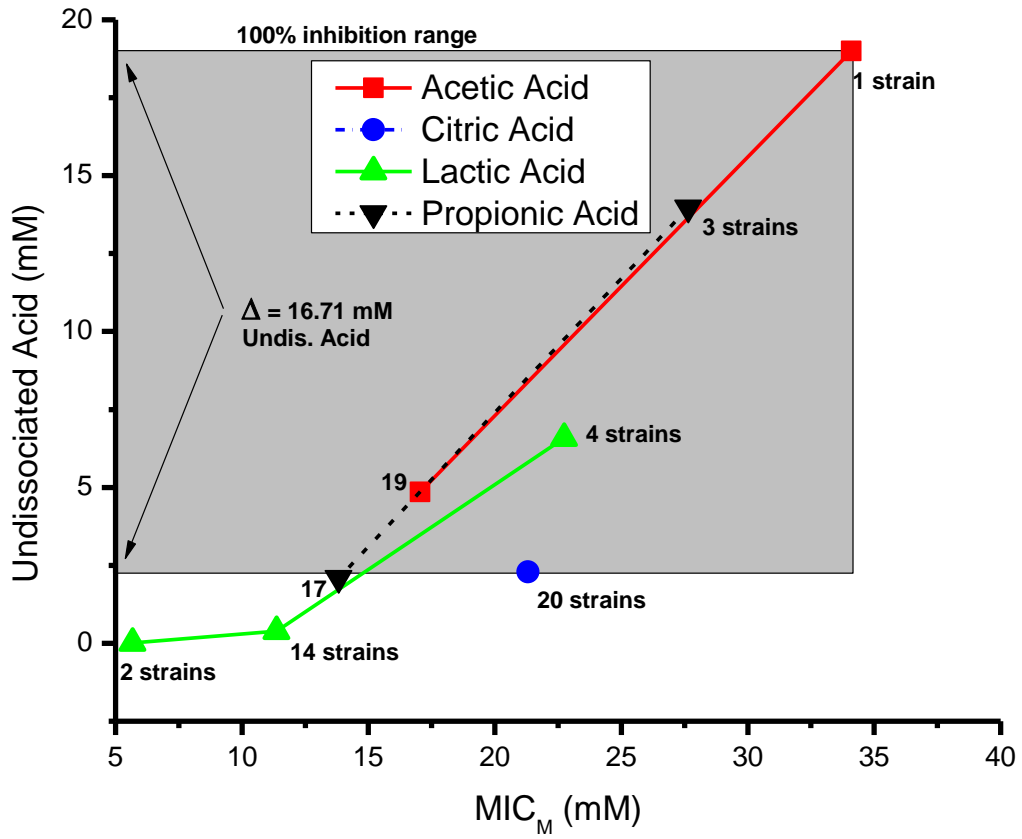


Figure S16: Concentrations of the undissociated acetic, citric, lactic and propionic acids at the MIC_M for 20 *Salmonella* serovar Kentucky feces strains.

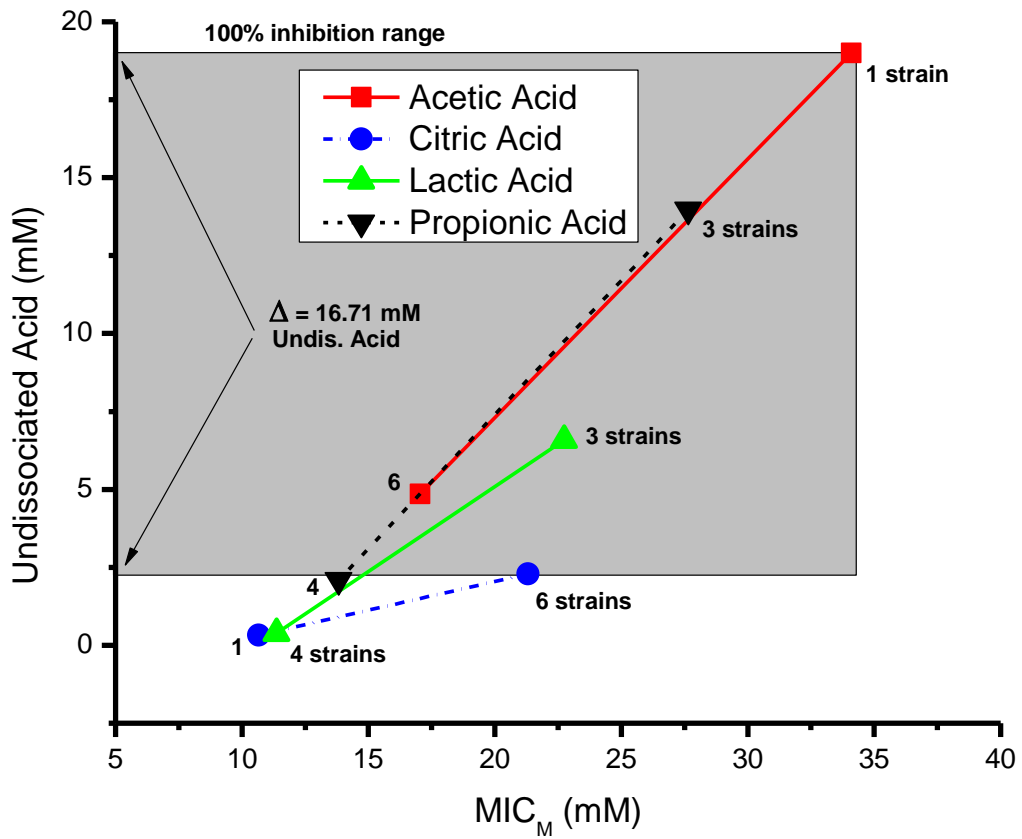


Figure S17: Concentrations of the undissociated acetic, citric, lactic and propionic acids at the MIC_M for 7 *Salmonella* serovar Meleagridis feces strains.

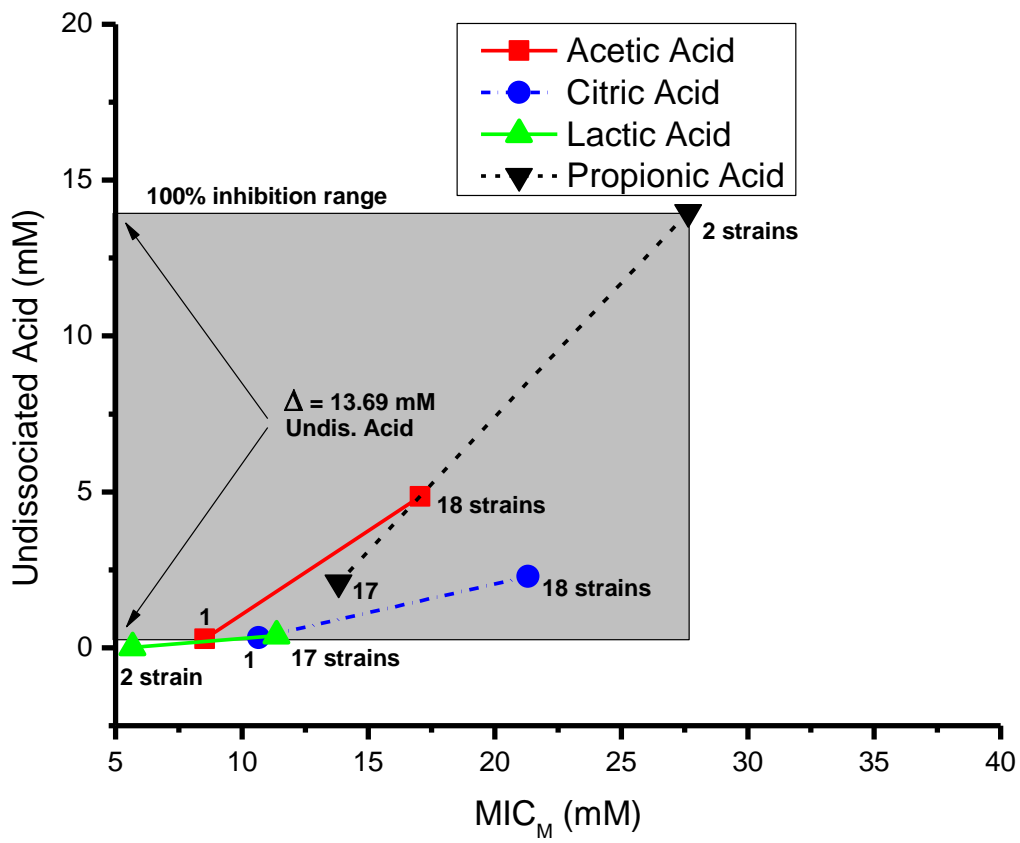


Figure S18: Concentrations of the undissociated acetic, citric, lactic and propionic acids at the MIC_M for 19 *Salmonella* serovar Muenster feces strains.

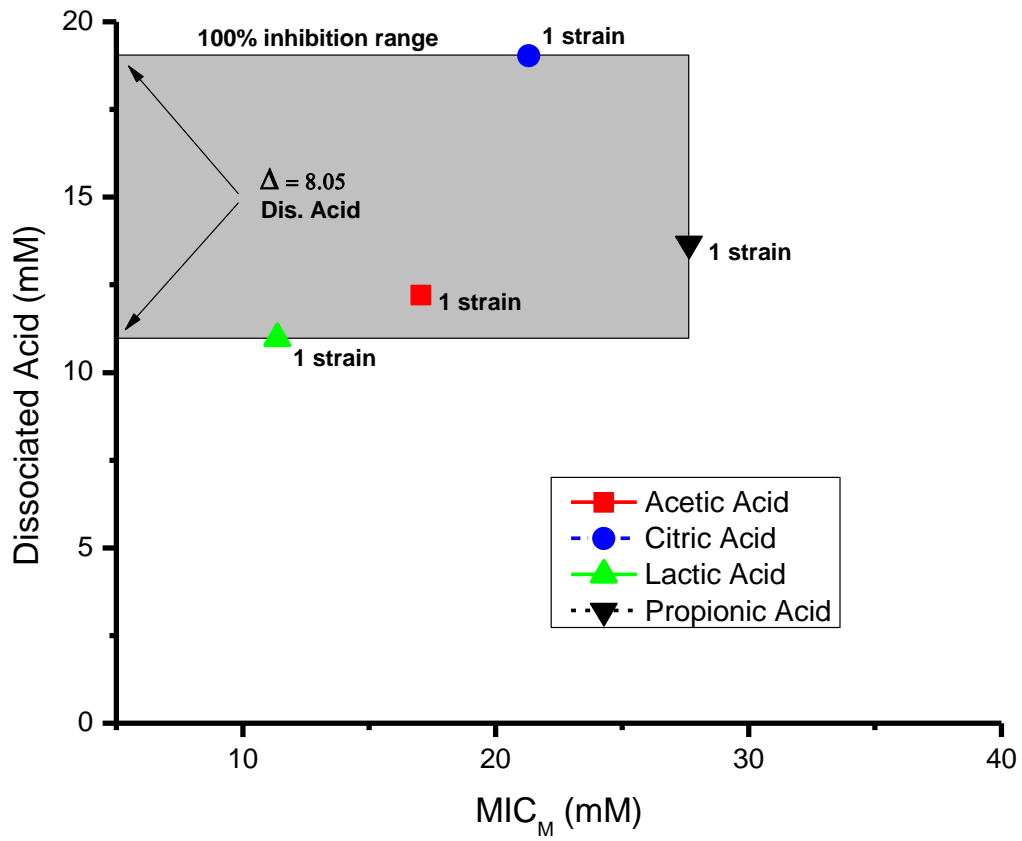


Figure S19: Concentrations of the dissociated acetic, citric, lactic and propionic acids at the MIC_M for the one *Salmonella* serovar Anatum hide strain.

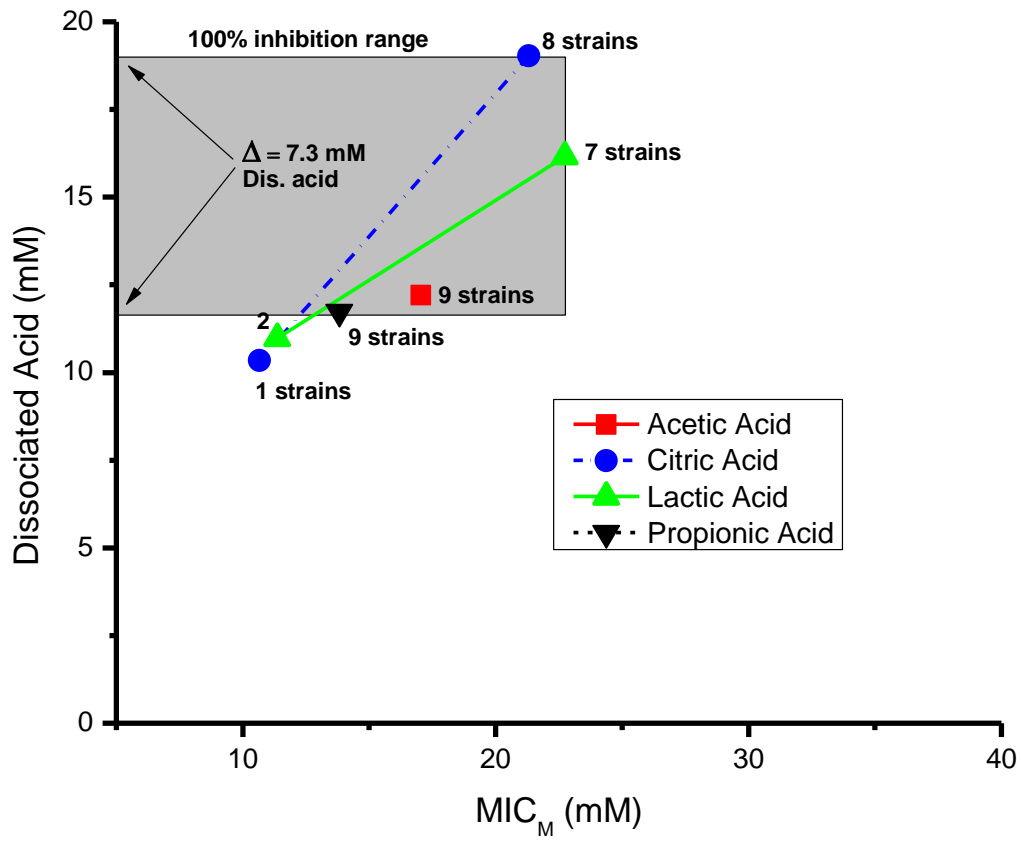


Figure S20: Concentrations of the dissociated acetic, citric, lactic and propionic acids at the MIC_M for 9 *Salmonella* serovar Cerro hide strains.

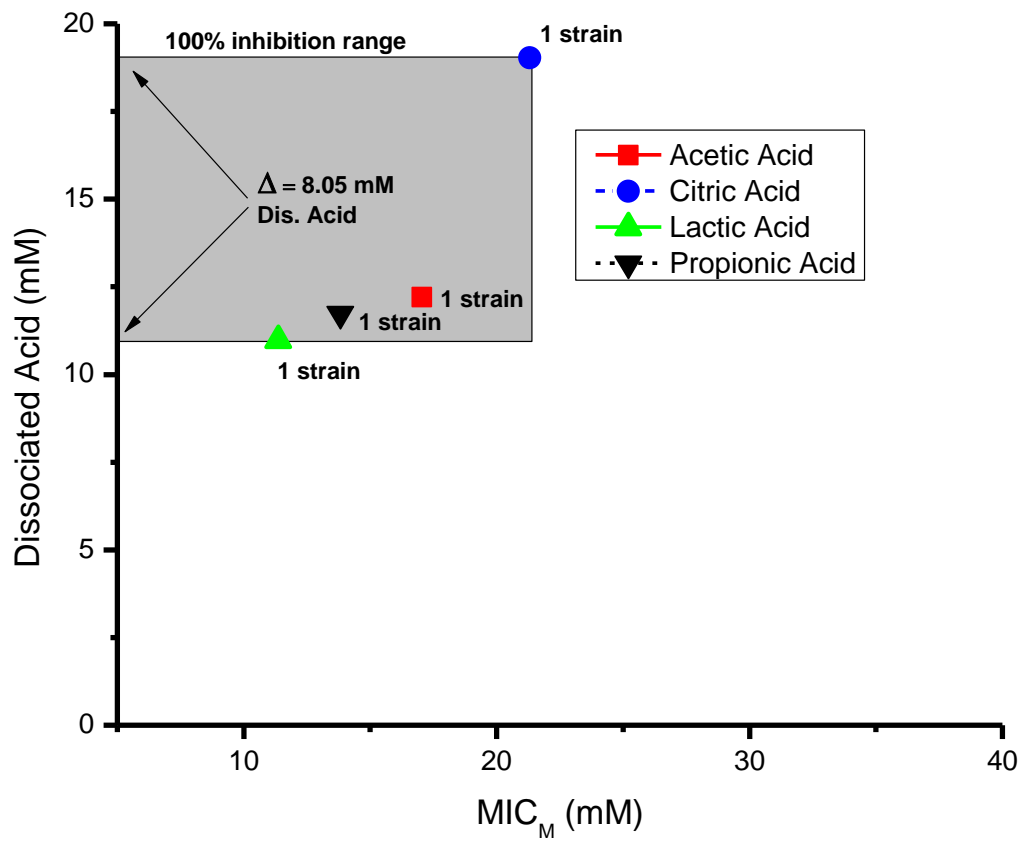


Figure S21: Concentrations of the dissociated acetic, citric, lactic and propionic acids at the MIC_M for the one *Salmonella* serovar Gaminara hide strain.

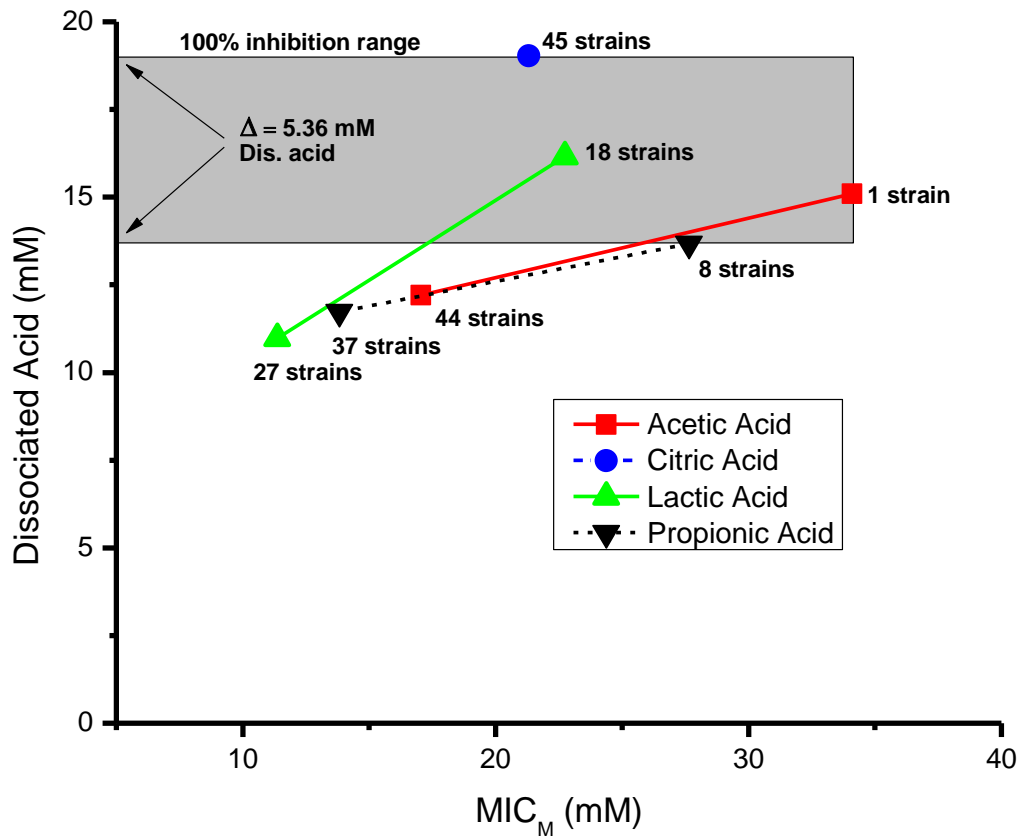


Figure S22: Concentrations of the dissociated acetic, citric, lactic and propionic acids at the MIC_M for 45 *Salmonella* serovar Kentucky hide strains.

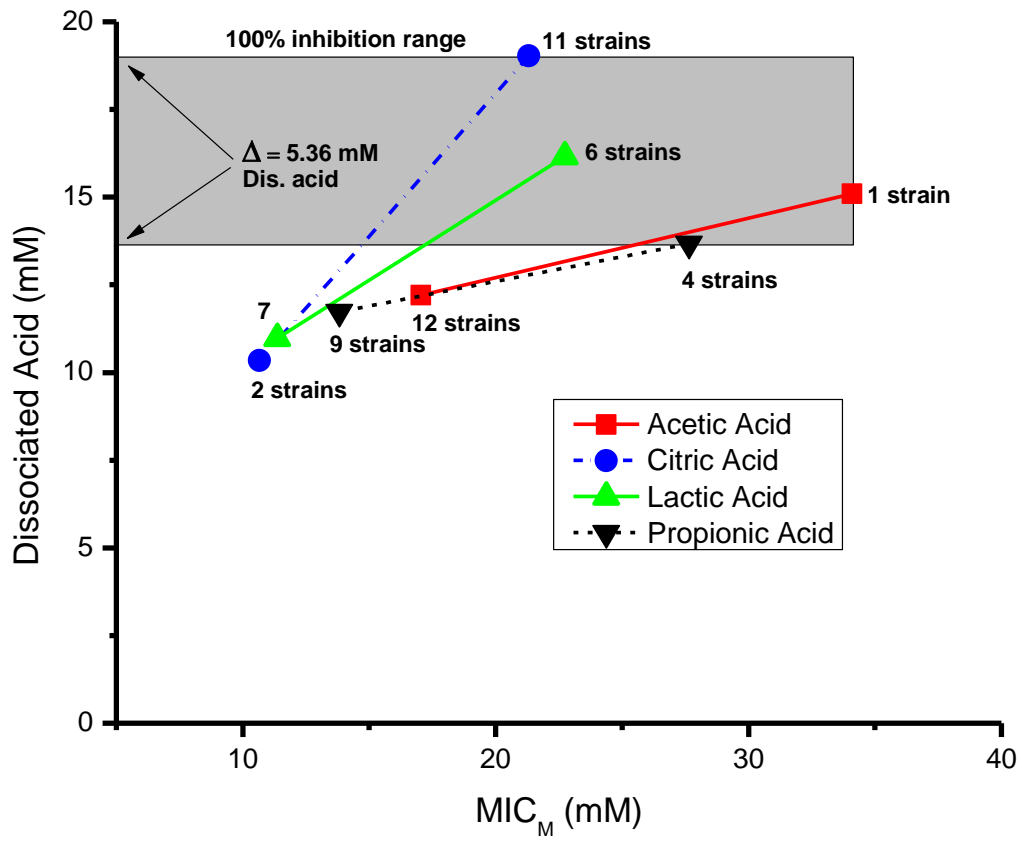


Figure S23: Concentrations of the dissociated acetic, citric, lactic and propionic acids at the MIC_M for 13 *Salmonella* serovar Meleagridis hide strains.

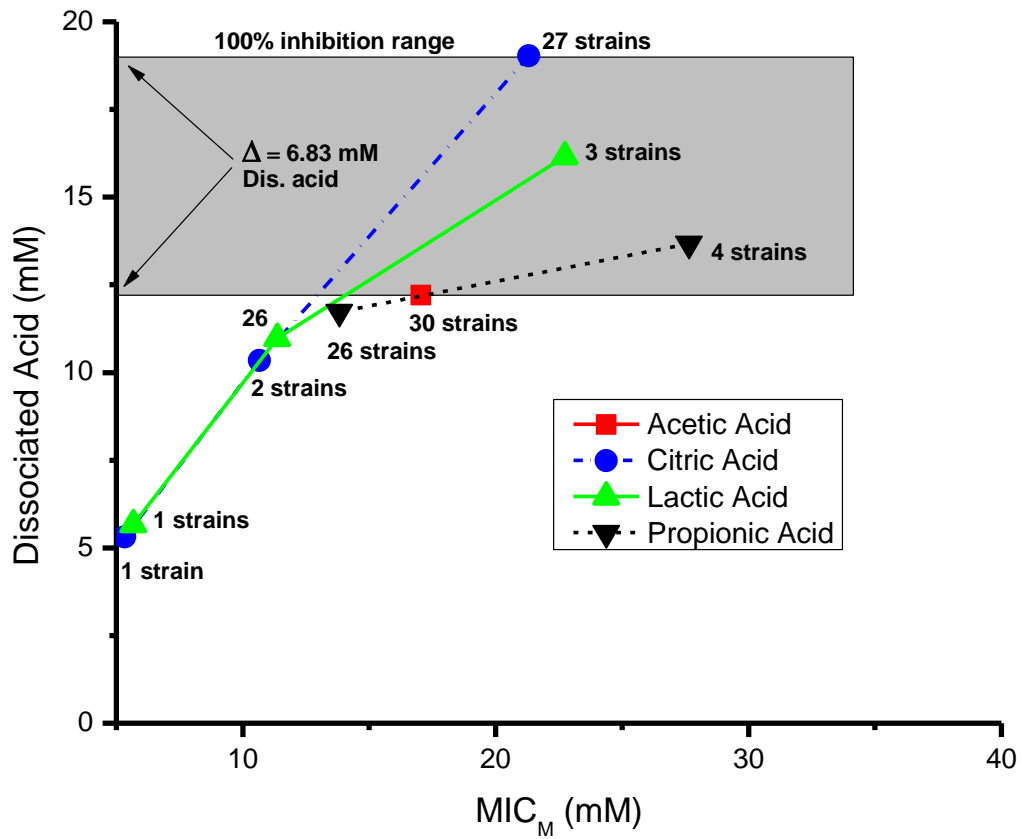


Figure S24: Concentrations of the dissociated acetic, citric, lactic and propionic acids at the MIC_M for 30 *Salmonella* serovar Muenster hide strains.

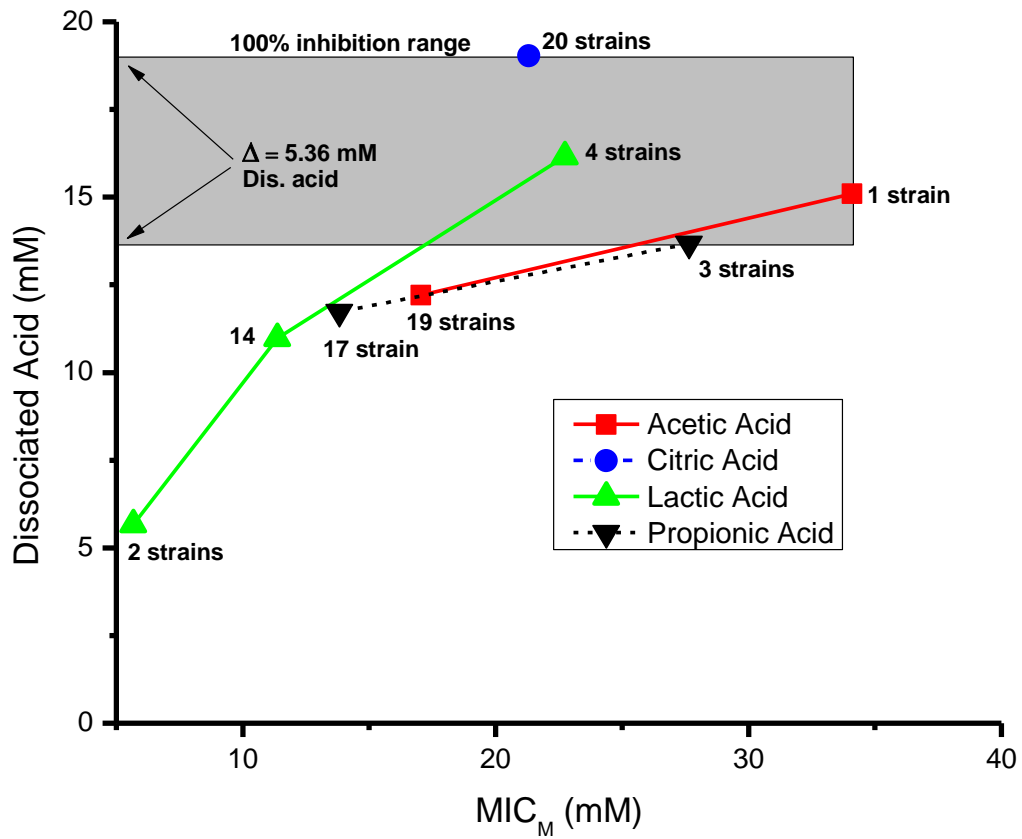


Figure S25: Concentrations of the dissociated acetic, citric, lactic and propionic acids at the MIC_M for 20 *Salmonella* serovar Kentucky feces strains.

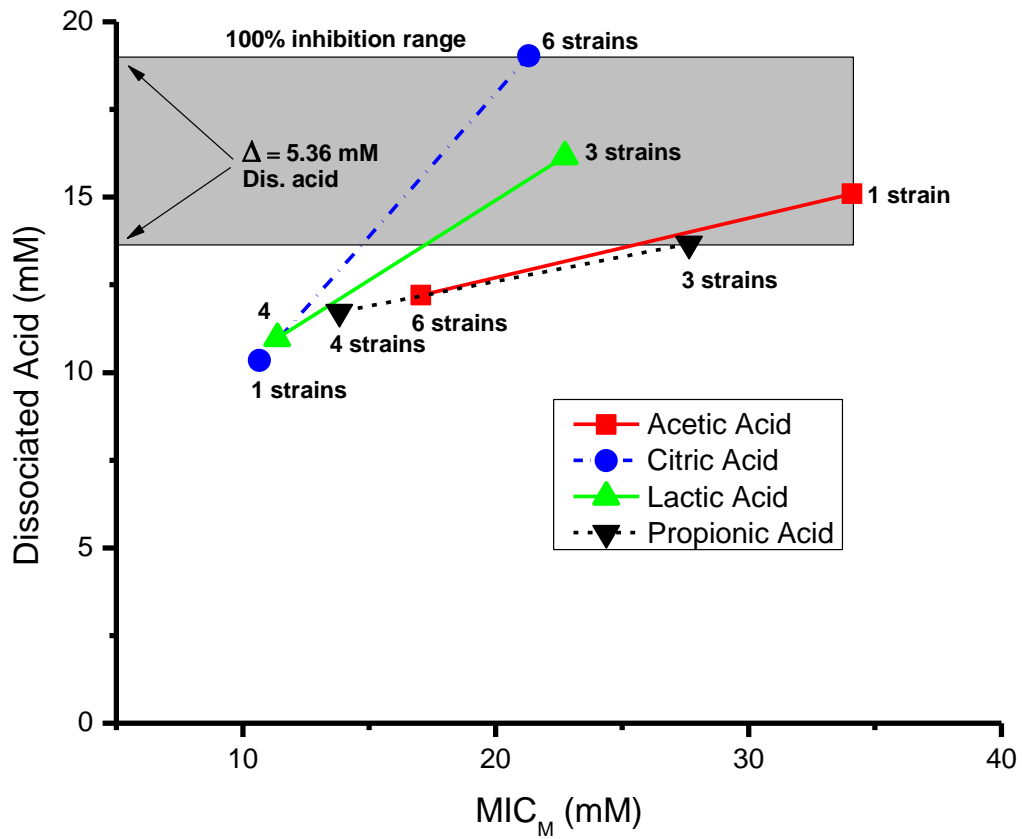


Figure S26: Concentrations of the dissociated acetic, citric, lactic and propionic acids at the MIC_M for 7 *Salmonella* serovar Meleagridis feces strains.

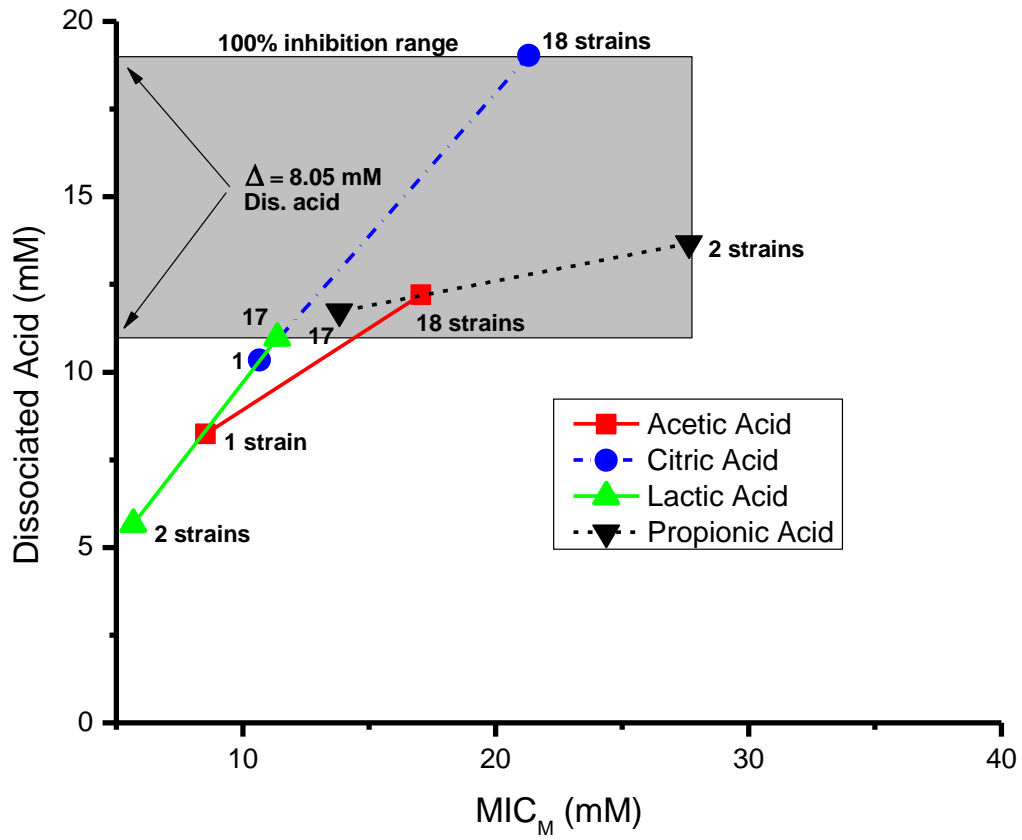


Figure S27: Concentrations of the dissociated acetic, citric, lactic and propionic acids at the MIC_M for 19 *Salmonella* serovar Muenster feces strains.