**Supplementary Material S2.** **Metabolite data for cocultures of L+R- (strain 515) and L-R+ (strain 515) inoculated at different initial strain ratios.** All cocultures were grown in M9 medium with 5 g L-1 lactose. Metabolite data was quantified using HPLC. Data is the mean of three biological samples while error bars represent standard error. Yields and specific rates were calculated during exponential growth.

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