

Example of conjugation efficiency calculation:

$$\text{Conjugation Efficiency} = \frac{\text{CFU/mL of the transconjugant [media AB]}}{\text{CFU/mL of recipients and transconjugants [media B]}}$$

Dilution	LMB100		Transconjugants from strain SW4955 selected with Carbelicillin	Cojugation Efficiency
	CFU	Approx. CFU	CFU (countable plate)	
10 ⁰	confluent	1030000000	confluent	1.67E-05
10 ⁻¹	confluent	103000000	confluent	
10 ⁻²	confluent	10300000	172	
10 ⁻³	confluent	1030000	32	
10 ⁻⁴	confluent	103000	4	
10 ⁻⁵	confluent	10300	0	
10 ⁻⁶	confluent	1030	0	
10 ⁻⁷	103	103	0	

$$\text{Conjugation Efficiency} = \frac{172}{10300000} = 1.67\text{E} - 05 \text{ transconjugants/recipient}$$