			amount	rate	minimum number (per cell)	observed number (per cell)
transport	CARBON		10 ¹⁰ carbon atoms	200 sugars per second	3x10 ³ glucose transporters	~1-3x10 ⁴ glucose transporters
	WATER				0 (membrane is sufficient)	~1- 40×10³ water channels
	ION					
synthesis	DNA		5x10 ⁶ bp	600 nucleotides per second	~50 DNA polymerases	~10² DNA polymerases
	RNA	سس	2x10³ mRNAs 6x10⁴ rRNAs	40 nucleotides per second	3-5x10³ RNA polymerases	
	dNTP	(m) (m) (m)	5x10 ⁶ dNTPs			~20 ribonucleo reductases
	ATP	C	10 ¹⁰ ATP per cell cycle	10 ³ molecules per second	3-5x10³ F ₁ F ₀ ATP synthases	
	CELL WALL					
	LIPID		5x10 ⁷ lipids	~1 per second per synthase	1-2x10³ fatty acid synthases	
	PROTEIN		3x10 ⁶ proteins	10 - 20 amino acids per second	1–2×10 ⁴ ribosomes	
	tRNA	SE	3x10 ⁸ amino acids			