

Clonaggio molecolare

DNA Genomico

mRNA

pre-mRNA

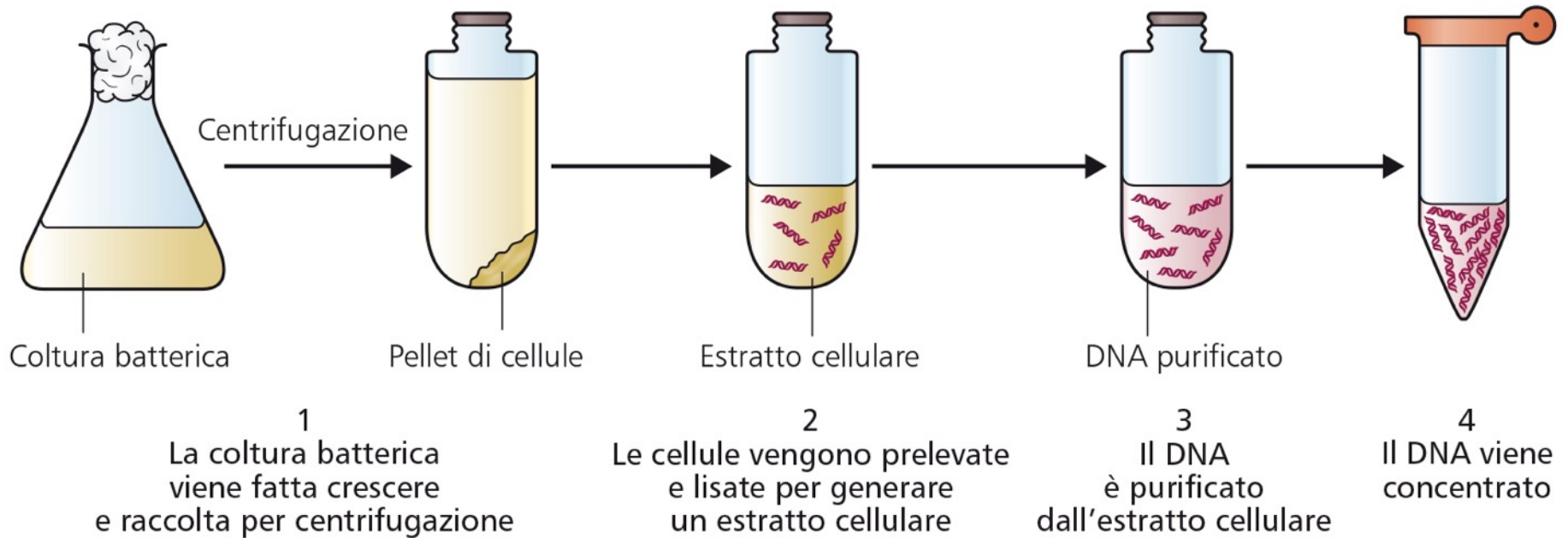
Small-RNA

Micro-RNA

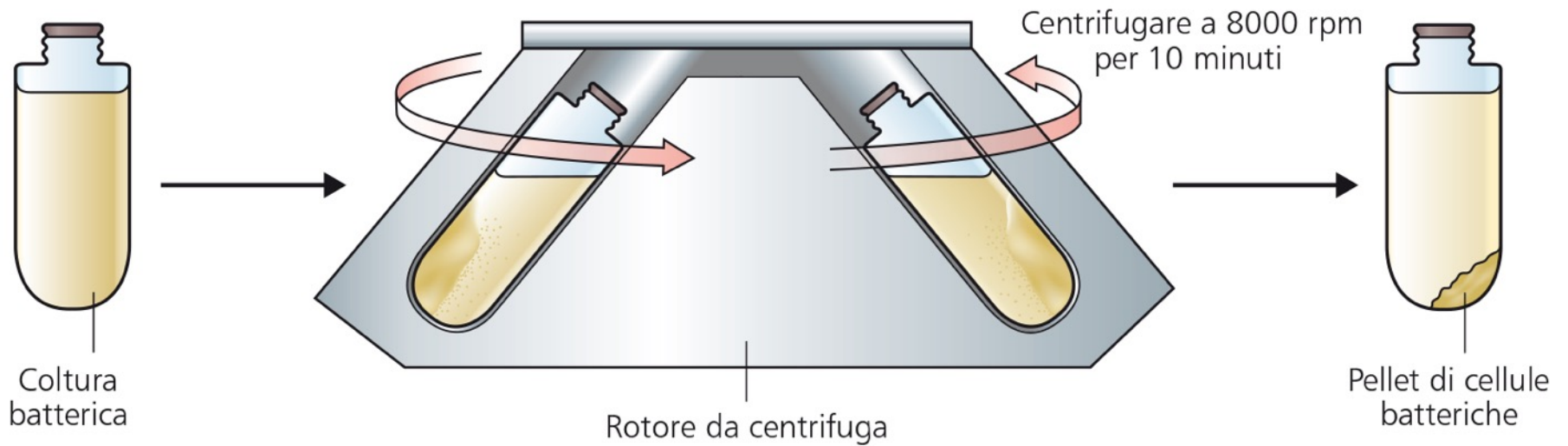
Proteina molto abbondante

Proteina poco abbondante

La purificazione del DNA cellulare

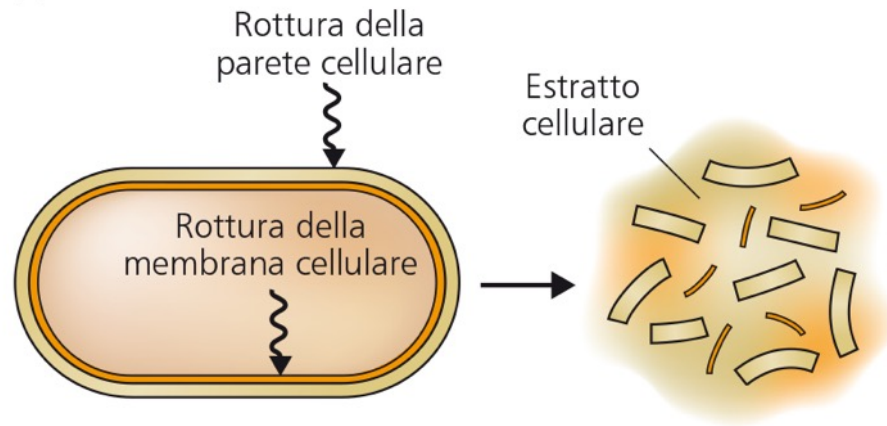


La purificazione del DNA cellulare



La purificazione del DNA cellulare

(a) Lisi cellulare

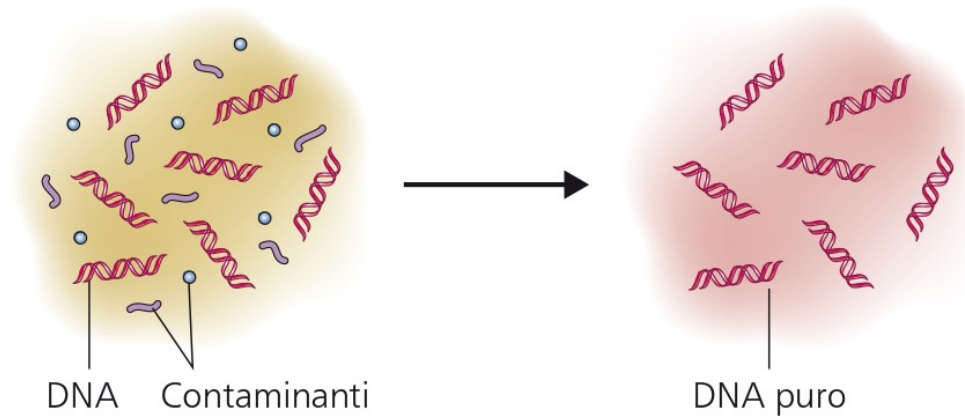


(b) Centrifugazione per rimuovere i detriti cellulari

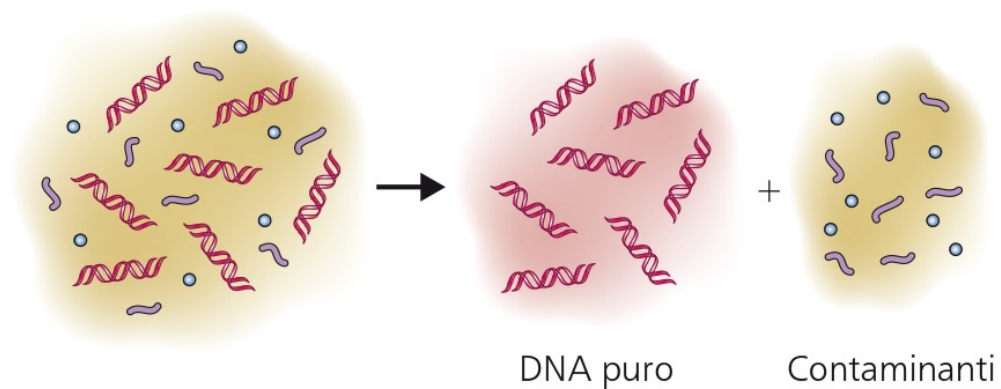


La purificazione del DNA cellulare

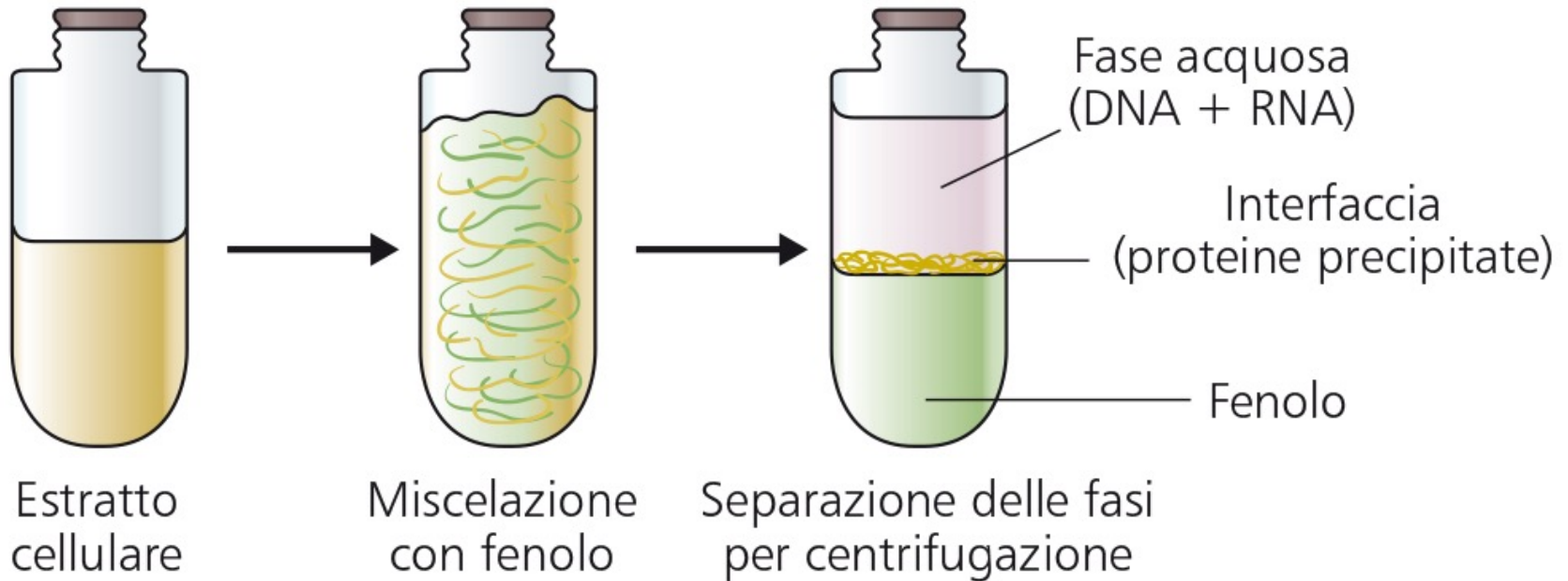
(a) Degradazione dei contaminanti



(b) Separazione del DNA dai contaminanti

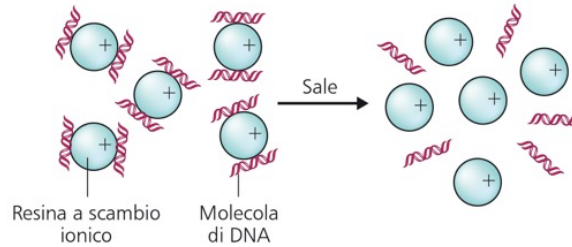


La purificazione del DNA cellulare

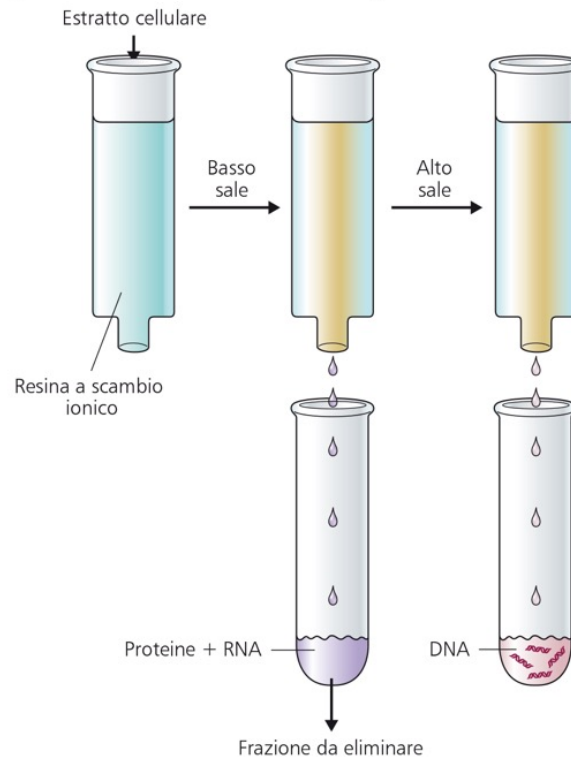


La purificazione del DNA cellulare

(a) Legame del DNA alla resina a scambio ionico

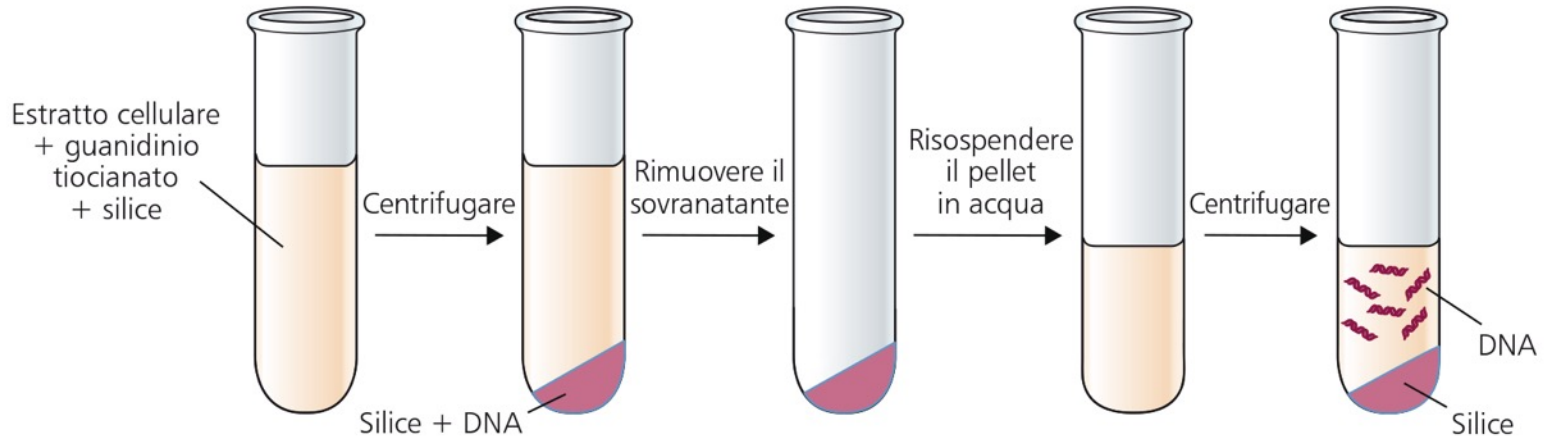


(b) Purificazione del DNA tramite cromatografia a scambio ionico

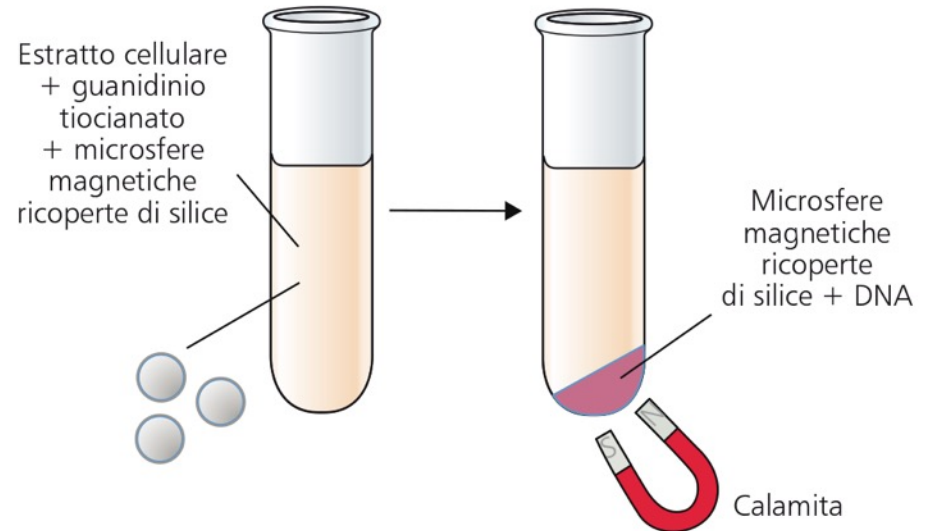


La purificazione del DNA cellulare

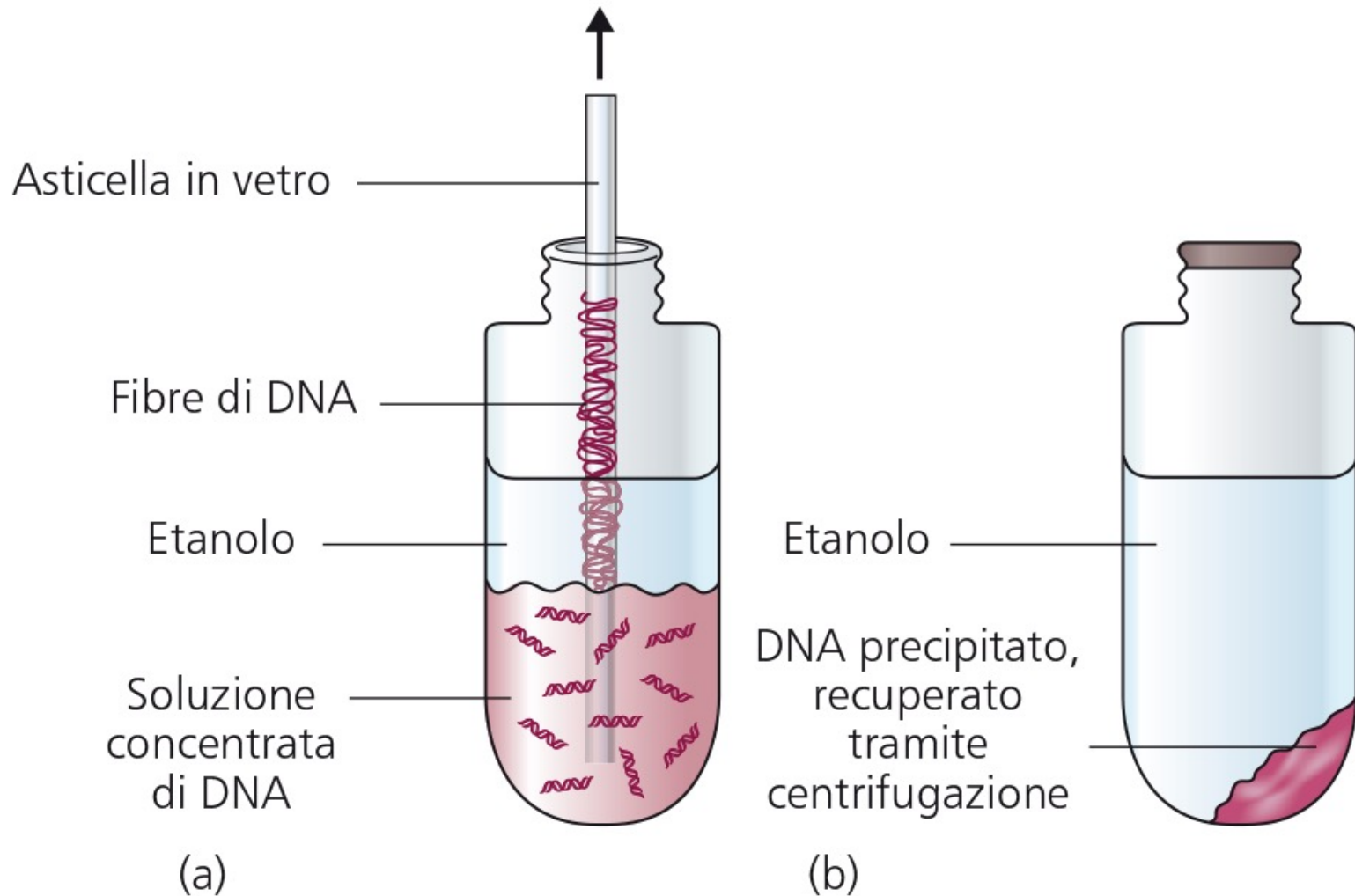
(a) La resina al silice viene aggiunta direttamente all'estratto cellulare



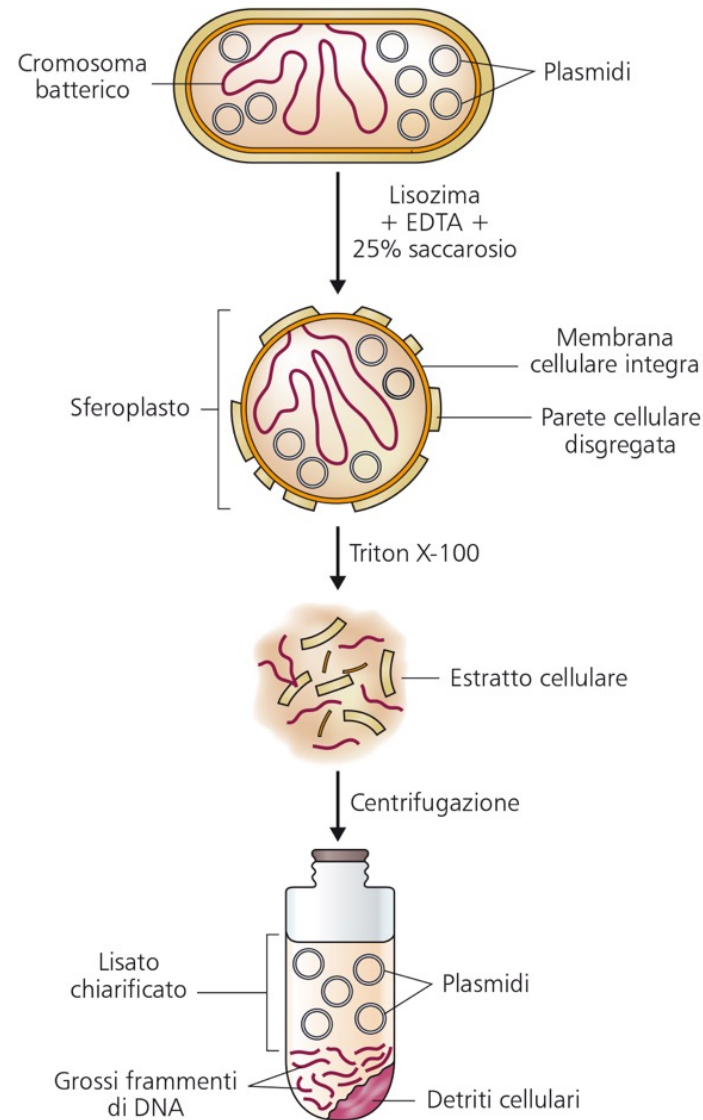
(b) Microsfere magnetiche ricoperte di silice



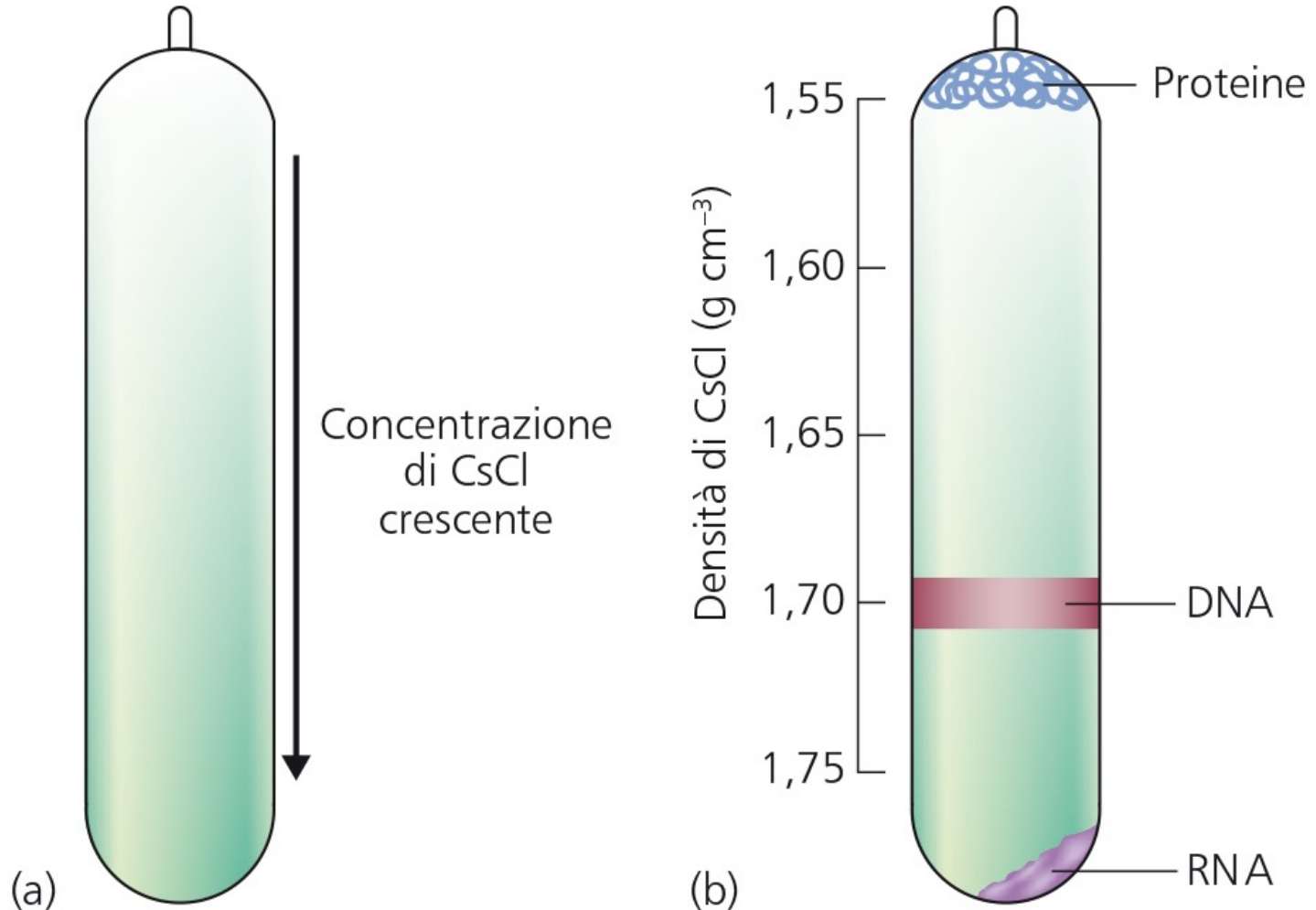
La purificazione del DNA cellulare



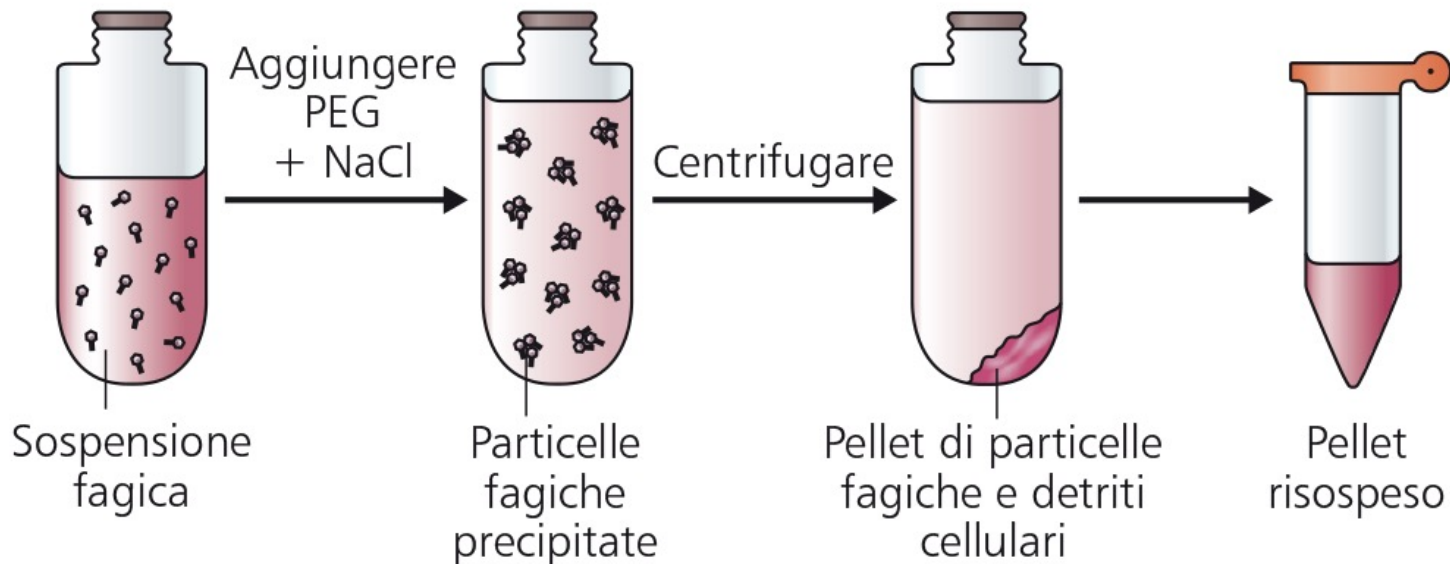
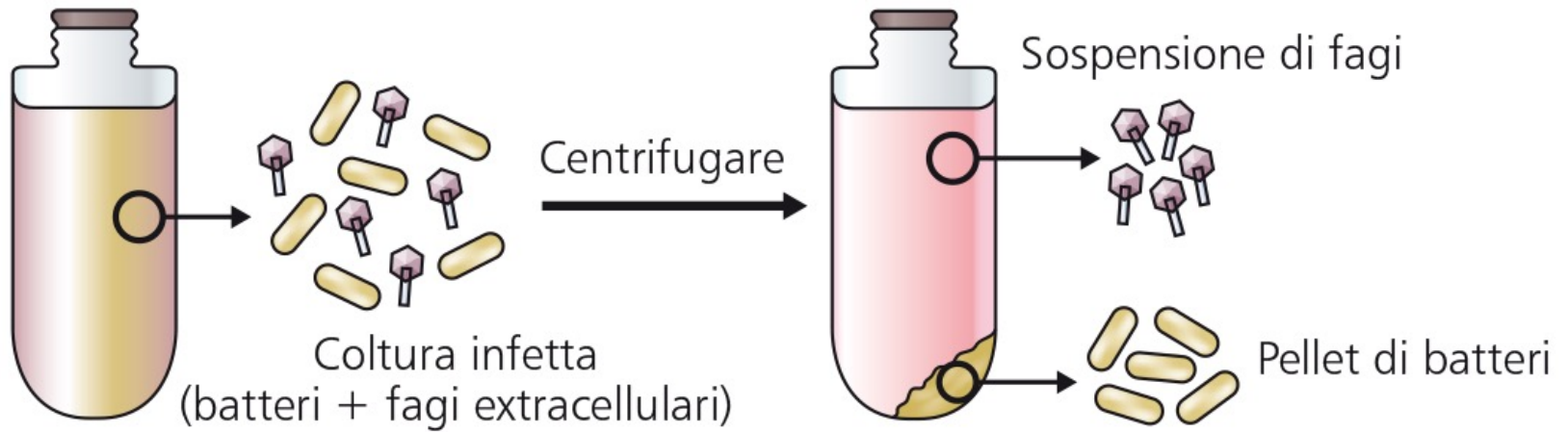
La purificazione del DNA plasmidico



La purificazione del DNA plasmidico



La purificazione del DNA fagico



DNA ricombinante

- 1) Taglio e frammentazione del DNA
- 2) Enzimi di modificazione
- 3) Strategie di Clonaggio
- 4) Vettori plasmidici e fagici
- 5) Sequenziamento del DNA
- 6) Interazione Proteine-Acidi Nucleici
- 7) MicroArrays, NGS ed approccio genomico