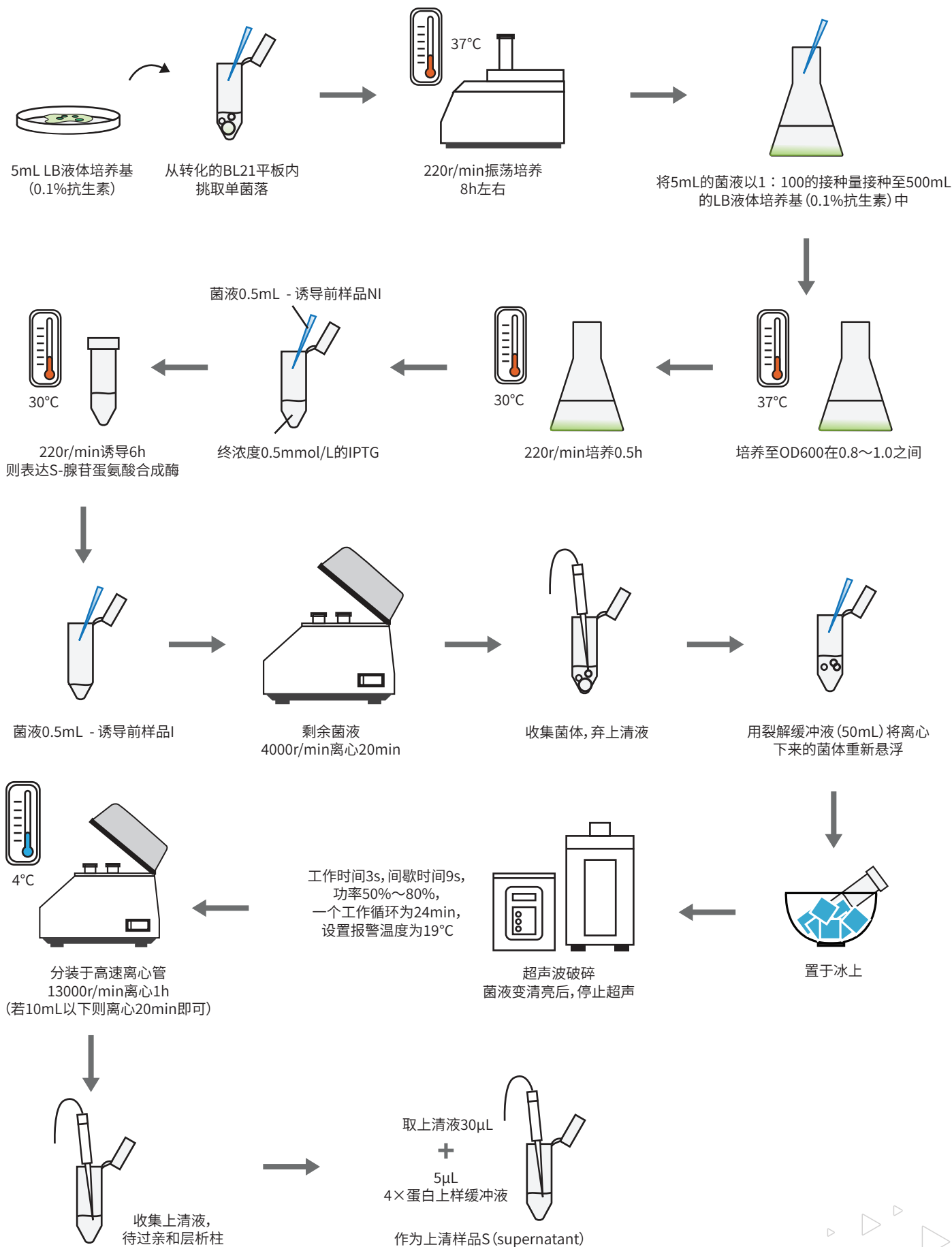
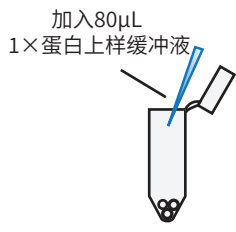


蛋白质表达、纯化

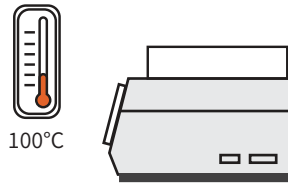
实验步骤

1 蛋白质的表达 (Thermusthermophilus HB27来源的S-腺苷蛋氨酸合成酶, tMAT) 及样品处理



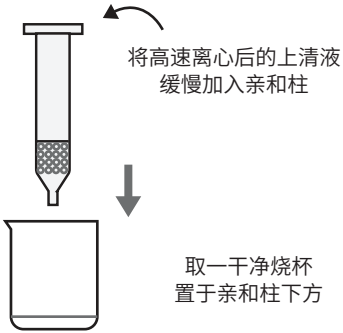


挑取小块沉淀放入1.5mL离心管
作为沉淀样品P (pellet)



将制好的样品S、P
放入100°C金属浴5min

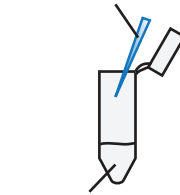
2 蛋白分离纯化



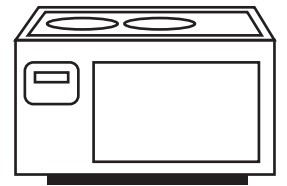
取一干净烧杯
置于亲和柱下方

直至所有上清液穿过亲和柱，将上下两个烧杯换位置，将穿透的上清液再次过亲和柱

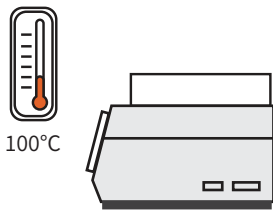
加入5μL 4×蛋白上样缓冲液



取此时烧杯中溶液30μL

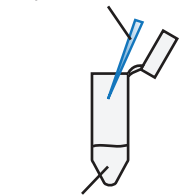


沸水浴5min
作为样品穿透(F)

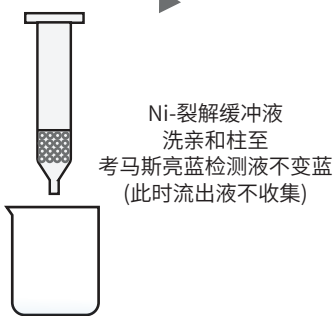
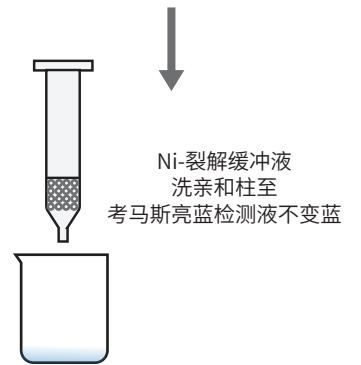


100°C金属浴5min，作为样品W1

加入5μL 4×蛋白上样缓冲液



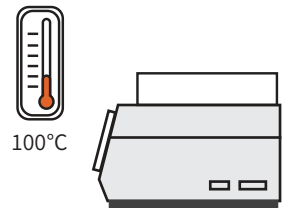
取前两滴流出液30μL



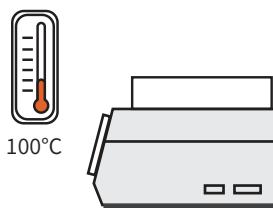
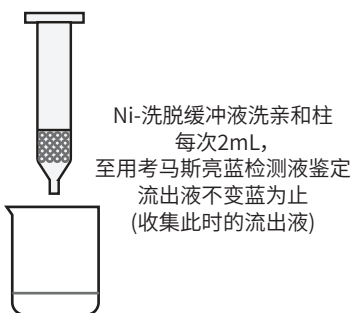
加入5μL 4×蛋白上样缓冲液



取前两滴流出液30μL

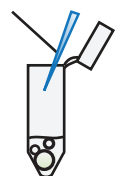


100°C金属浴5min，作为样品W2



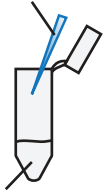
100°C金属浴5min，作为样品BAW

加入15μL 1×蛋白上样缓冲液



最后待液体流尽，取填料10μL

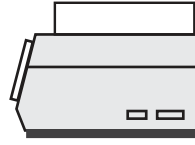
5 μ L 4 \times 蛋白上样缓冲液



取前两滴流出液30 μ L



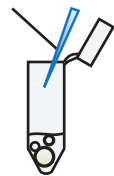
100°C



100°C金属浴5min, 作为样品洗脱 (E)



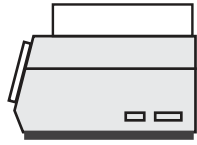
加入15 μ L 1 \times 蛋白上样缓冲液



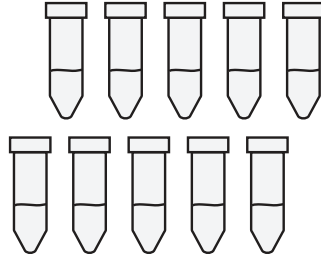
最后待液体流尽, 取填料15 μ L



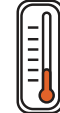
100°C



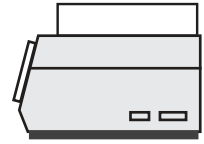
这些样品在取完后,
需要尽快在100°C金属浴中煮5min
煮样结束, 蛋白已经变性,
可以将样品放在室温下保存,
以备跑蛋白电泳



纯化过程中取样
NI、I、S、P、F、W1、W2、BAW、E、BAE



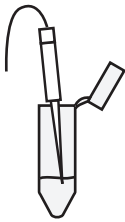
100°C



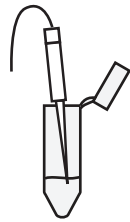
100°C金属浴5min, 作为样品BAE



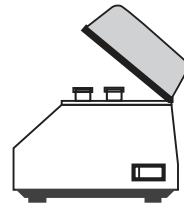
蛋白胶的上样顺序应该按照取样顺序进行, 上样顺序为NI、I、S、P、F、W1、W2、BAW、E、BAE



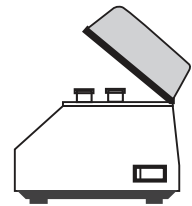
NI、I、S、P、F上样时取3 μ L



其余样品上样取10 μ L



NI、I、P等样品在上样前
需要13000r/min离心8min,
上样只取上清, 避免取到管底沉淀
以保证上样量和上样浓度一致



其余样品在上样前
也应12000r/min离心1min,
保证煮样时管内部的水蒸气凝结的水珠也
全部离心到管底,
以保证上样量和上样浓度一致

