

TempliPhi™ Amplification Kit

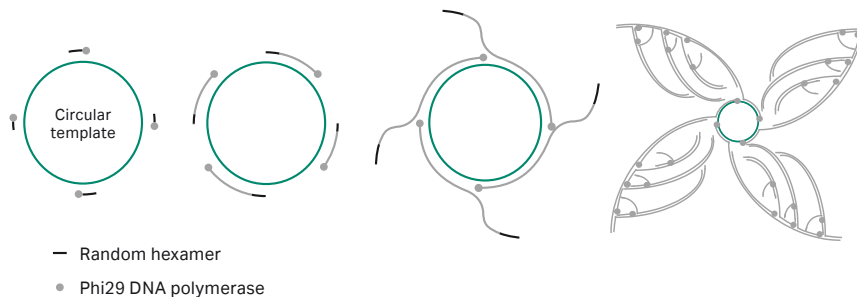
Skip the overnight culture!

TempliPhi™ amplification kits use a unique process to efficiently prepare micrograms of DNA from picogram quantities of circular DNA starting material. Using isothermal rolling circle amplification (RCA), TempliPhi™ amplification kits provide accurate, exponential amplification of circular DNA using bacteriophage Phi29 DNA polymerase. Isothermal amplification is performed at 30°C without the need for thermal cycling, due to the strong strand displacing characteristics of Phi29 DNA polymerase.

Our TempliPhi™ Amplification Kit protocol allows you to amplify from plasmid, liquid culture or direct from bacterial colonies with less than 20 minutes of hands-on time.

How does it work?

Rolling circle amplification (RCA)



Random hexamer primers anneal to the circular template DNA at multiple sites. Phi29 DNA polymerase extends each of these primers. When the DNA polymerase reaches a downstream extended primer, strand-displacement synthesis occurs. The displaced strand is rendered singlestranded and available to be primed by more hexamer primer. The process continues, resulting in exponential, isothermal amplification.

The TempliPhi™ Amplification Kit formulation means that every reaction will yield the same amount of product, which can then be used directly in cycle sequencing reactions with no need for prior quantitation.



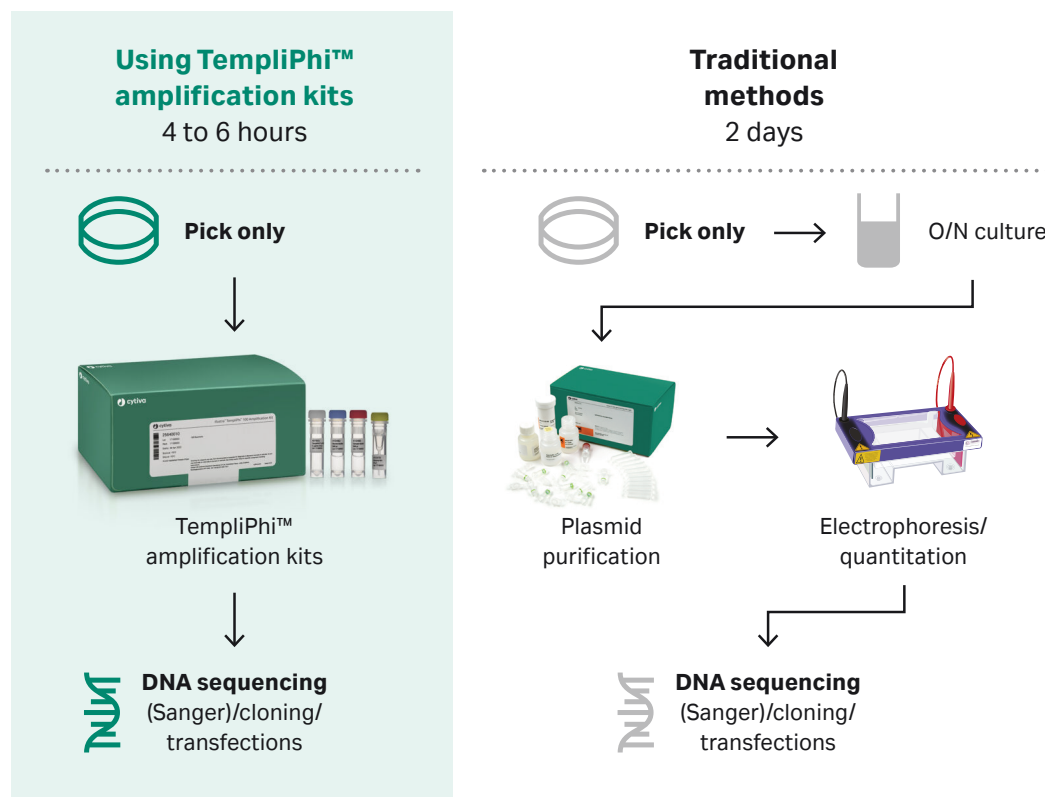
Do you work with bacterial/plasmid/circular DNA?

Do you grow your circular DNA using an overnight bacterial culture?

How long does it take to culture, purify and quantify your plasmid?

Do you work with difficult templates or large constructs?

Why TempliPhi™ amplification kits?



- Efficiently prepare templates for cycle sequencing, cloning, and transformation from circular DNA starting material in 4 to 6 hours.
- Generate microgram quantities of template DNA from picogram amounts of circular DNA.
- Amplify DNA from bacterial or M13 liquid cultures, colonies, plaques, glycerol stocks or purified circular (plasmid or M13) DNA.
- Use simple protocol to reduce time, labor, and quantity of consumables needed for template preparation.
- Workflow enables easy automation.

Ordering information

Product name	Pack size	Product code
TempliPhi™ Large Construct DNA Amplification Kit	1000 reactions	25640080
TempliPhi™ 100 DNA Amplification Kit	100 reactions	25640010
TempliPhi™ 500 DNA Amplification Kit	500 reactions	25640050
TempliPhi™ 2000 DNA Amplification Kit	2000 reactions	28964286
TempliPhi™ Sequence Resolver Kit	20 reactions	28903529
TempliPhi™ Sequence Resolver Kit	200 reactions	28903531

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