DNA electrophoresis

Don't jeopardize your ability to interpret DNA electrophoresis results with subpar reagents. For clear interpretation, choose products designed to provide precise DNA electrophoresis results.

Choose high-quality agarose for excellent gel transparency

Thermo Scientific™ TopVision™ agarose is highly purified DNase- and RNase-free agarose that comes in two melting point options (standard and low) and two formats (powder and agarose tablets).

thermofisher.com/topvision

Select the correct running buffer

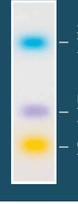
TBE buffer (Cat. No. B52) is commonly used with small DNA fragments, as it provides better separation for sizes <1 kb. TAE buffer (Cat. No. B49) is generally used for electrophoresis of nucleic acid fragments >1 kb.

For clear results, use DNA ladders with clear bands

Thermo Scientific™ GeneRuler™ DNA ladders have sharp, bright reference bands. The three tracking dyes make it easy to monitor separation of a wide range of DNA fragment sizes. Choose from a wide selection including the popular 1 kb, 100 bp, 50 bp, low-range, and high-range ladders.

thermofisher.com/generuler

Migration of dyes in Thermo Scientific™ TriTrack™ loading buffer.



thermo scientific

Custom and OEM solutions

As a leading supplier of molecular biology reagents, we offer customizable manufacturing solutions used by companies developing molecular assays. Our experienced Commercial Supply team is here to support your unique needs, from first idea to finished products. Here's what our OEM solutions mean for you:

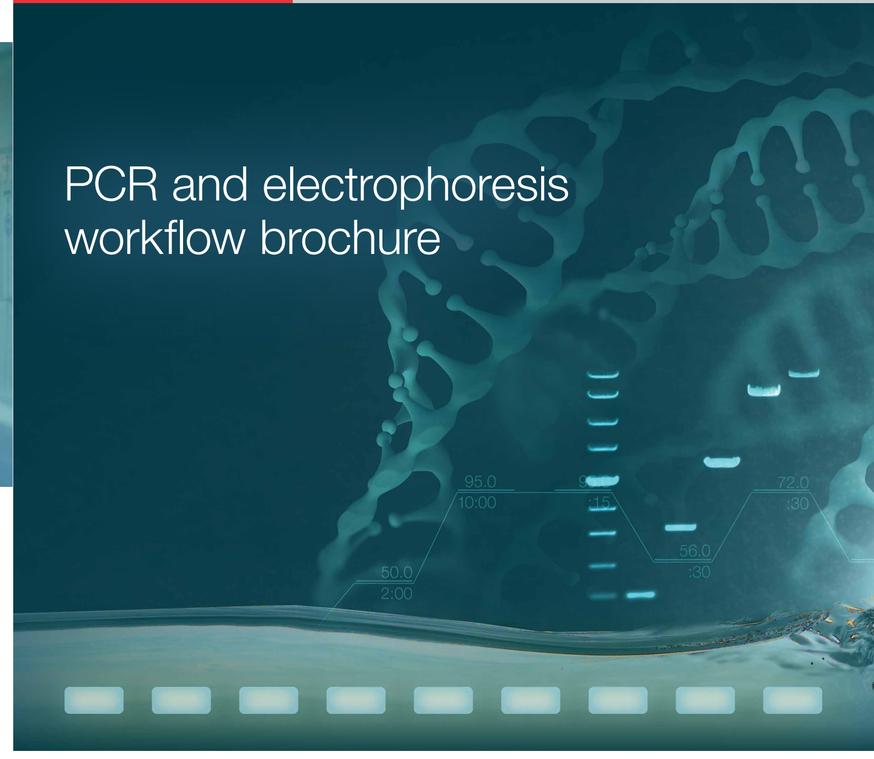
- Assurance that your products are built using raw materials and assay components with proven quality standards from state-of-the-art manufacturing facilities with ISO 13485 and ISO 9001 certification
- Support in co-developing the right product through customization, QC, packaging, and labeling whenever unique solutions are needed
- Gain a competitive edge by using innovative molecular biology products based on cutting-edge technologies, such as DNA-free PCR enzymes manufactured using single-use technology

For more information, visit **thermofisher.com/oem**

Find more molecular biology products at
thermofisher.com/tsmolbio

ThermoFisher SCIENTIFIC

molecular biology | thermo scientific



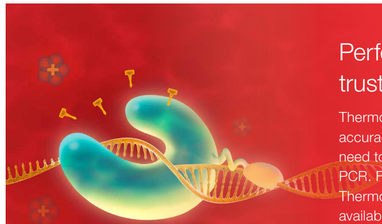
PCR and electrophoresis workflow brochure

Optimize your DNA amplification, separation, and analysis

PCR

PCR is used in a wide variety of applications including cloning, gene expression analysis, genotyping, sequencing, and mutagenesis. While the fundamentals of PCR are straightforward, there are many small details that can cause a seemingly simple experiment to fail. These trusted products can help you avoid setbacks and delays.

thermofisher.com/tspcr



Perform high-fidelity PCR with a trusted DNA polymerase

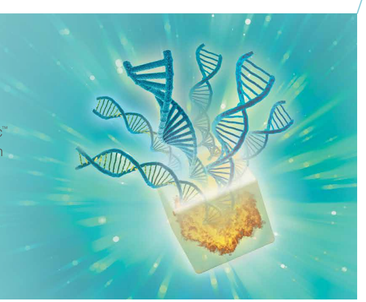
Thermo Scientific™ Phusion™ Plus DNA Polymerase offers high accuracy (>100x that of *Taq* DNA polymerase) and simplicity (no need to calculate primer-annealing temperatures) in high-fidelity PCR. For amplification of uracil-containing templates, Thermo Scientific™ Phusion™ U Hot Start DNA Polymerase is available as a specialized format.

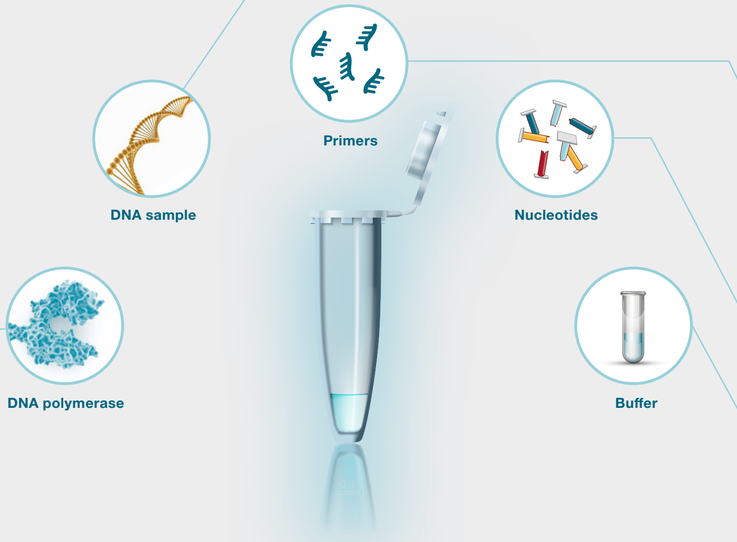
thermofisher.com/phusionplus

Get everyday PCR results faster

Due to specially formulated reaction buffers, Thermo Scientific™ DreamTaq™ DNA Polymerase enables robust amplification with minimal optimization of reaction conditions. Green master mixes help minimize pipetting and handling errors.

thermofisher.com/dreamtaq





Find the right fit, fast

Quickly find the right plastics for your PCR with the plastics selection tool.
thermofisher.com/findplastics

Help prevent cross-contamination by using Thermo Scientific™ EasyStrip™ Plus Tube Strips with individually attached caps.

Thermo Scientific™ Armadillo PCR plates combine the rigidity of a polycarbonate frame with thin-walled polypropylene wells to provide superior thermal cycling performance without warping.

Purify DNA with confidence

The Thermo Scientific™ GeneJET™ line of nucleic acid purification kits offers reliable and affordable tools for purification of DNA from different sources. GeneJET kits use a well-established silica membrane technology and undergo extensive testing to ensure downstream compatibility.

thermofisher.com/genejet

Did you know?
The online T_m Calculator can help quickly find the appropriate annealing temperature for your PCR reaction. Select your DNA polymerase, enter your sequence, and go.

thermofisher.com/tmcalculator

Well-designed, high-quality oligos are critical for PCR success

Design your primers with confidence using our free online oligo designer. Receive your high-quality oligos fast by using our easy-to-use online portal.

Design: **thermofisher.com/oligoperfect-designer**
Order: **thermofisher.com/oligos**

Did you know?
Primers should be 15–30 bases long, avoiding both complementarity between the primers and repeating sequences to prevent hairpin formation and primer dimerization.

Don't forget the dNTPs

Avoid confusing results—use high-quality Thermo Scientific™ NTPs and dNTPs with greater than 99% purity confirmed by HPLC.

thermofisher.com/dNTPs

Make sure to use Thermo Scientific™ nuclease-free water, which is deionized and 0.22 µm membrane–filtered nuclease-free. It is the ideal choice for all molecular biology applications.

For faster PCR genotyping, bypass lengthy purification steps

Add your genotyping sample directly to Thermo Scientific™ Direct PCR master mixes. Help save time with minimal sample handling, no DNA purification, and fast PCR cycling.

thermofisher.com/directpcr