

g e l i f i c a t i o n



we make it simple



**BIOFOOLS**

## are you working under these conditions?

- You must store reagents at  $-20^{\circ}\text{C}$  and wait for their melt
- You have to handle too many reagents per reaction
- Sample handling and pipetting steps leads your risk of degradation, and pipetting errors
- Reagents should be kept cold during dispensing process
- You waste an important part of your budget in consumables



why not make it simple? It could be as simple as this...

for your current reaction,  
without further lab developments

## your reaction in Gel format

and you can benefit from all these advantages

### **Less set-up time**

- All-in-one-format: Everything needed for your reaction is included in the tube
- Simply add template and water

### **Less errors**

- Minimal handling steps
- Minimal pipetting steps
- Less risk of contamination

### **Cost-effective**

- Minimal budget for consumables
- Non-existence of physical separation between working areas

### **Convenient store and shipment conditions**

- Shipping and handling at room temperature
- Store at 4°C
- Possibility of field experiments
- Less reagents in stock
- Less storage space

### **Additional features**

- Hot Start in every reactions, at user's will
- Specially designed for high-throughput screening
- Minimal intra- and inter-assay variation

# what is the Gelification Technology?

Gelification is a partial dehydration process used to preserve or stabilise components of biological reactions at room temperature by addition of stabilising agents.

This process does not alter protein structures and interaction between reagents are avoided until reaction is activated by the end user.

This technology, patented by Biotools, has many applications in reactions or process used in Molecular Biology, diagnosis, research and development.

## our technology has been successfully validated for stabilising:

- Nucleic acids amplification (single and multiplex PCR, qPCR, RT-PCR, qRT-PCR)
- First-strand cDNA synthesis
- Hybridisation, ligation, sequencing and restriction assays
- Primers extension
- Primer/probe labelling
- Enzymes and antibodies stabilisation
- Primers (standard or modified) stabilisation
- Labelled probes stabilisation:
  - Molecular Beacon probes
  - FRET probes
  - Taqman® probes
  - Scorpions™ probes
  - ZEN™ double-quenched probes

# methodology: example for a PCR

Step 1: Receive your customised gel mixture

Step 2: Add H<sub>2</sub>O and the template



minimal set-up time

If you are interested in a customised gel reaction/kit, contact us at: [info@biotools.eu](mailto:info@biotools.eu)

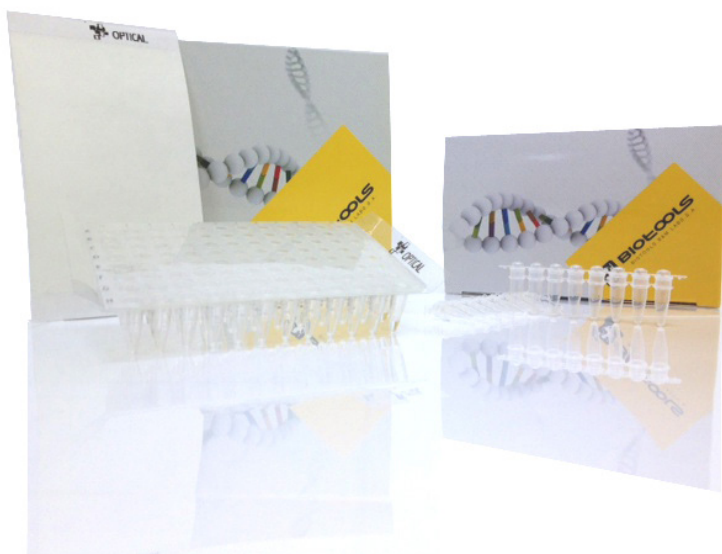
## and furthermore...

... you can buy now "Ready to use" Standard Kits in Gel Format

... you can test now advantages of Gelification

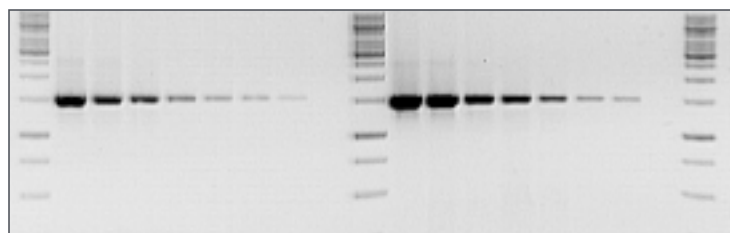
... you can compare it with your routine PCRs

...by using products available in our catalogue



Standard Liquid master mix

DNA AmpliGel PLUS Master Mix



**Sensitivity of DNA AmpliGel PLUS Master Mix for detection of low copy target.**

**1,5 kb** lambda phage target amplified from a 2 fold dilution series starting from **1 pg** down to **16 fg** using Gelified Plus Master Mix (right) and Standard liquid master mix (left).

### Ordering information

10.541 DNA AmpliGel Master Mix 12 x tube strips

10.545 DNA AmpliGel Master Mix - 96 well Plates - 10 plates

10.546 DNA AmpliGel Master Mix - 96 well Plates - 20 plates

10.551 DNA AmpliGel PLUS Master Mix - 12 x 8-tubes strip

Technology patented and protected by Biotoools PCT ES 2002/000109

More information at: [www.biotoools.eu/our\\_stabilization.html](http://www.biotoools.eu/our_stabilization.html)

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