

# POWERlyse – lysis solution

Product:      PLB-100 (5 ml)  
                    PLB-1000 (50 ml)

## Description

A powerful lysis solution intended for DNA isolation of strains with tough cell walls, like *Staphylococcus aureus*, *Mycobacterium paratuberculosis*, *Streptococcus agalactiae*, and *Chlamydia trachomatis* elementary bodies. POWERlyse can also be used for strains with less tough cell walls, such as Gram-negative bacteria. The lysis reaction happens within a minute and is therefore a fast alternative to other traditional methods.

The lysis solution must be removed from the DNA before further analysis can be performed. It is therefore recommended to perform the work with a magnetic particle system. POWERlyse is included in Genpoint's magnetic particle based kits, BUGS'n BEADS and chlamCAP.

## Suggested protocol for DNA isolation using POWERlyse:

1. Prepare cell samples.
  - This can be done with Bugs'n Beads, by centrifugation or colony picking)
2. Add 50µl POWERlyse, and mix well by shaking the tube briefly  
(NB! Do not let stand for more than 1 minute)
3. Immediately add 150 µl refrigerated 96% ethanol and leave for 5 min.
4. Immobilize DNA and remove the solution.
5. Wash twice with approximately 1ml 70% ethanol
6. Resuspend in Elution solution
7. If required for the next application, elute the DNA from the solid phase.

## Storage and stability:

POWERlyse is stable for one year stored at Room Temperature.