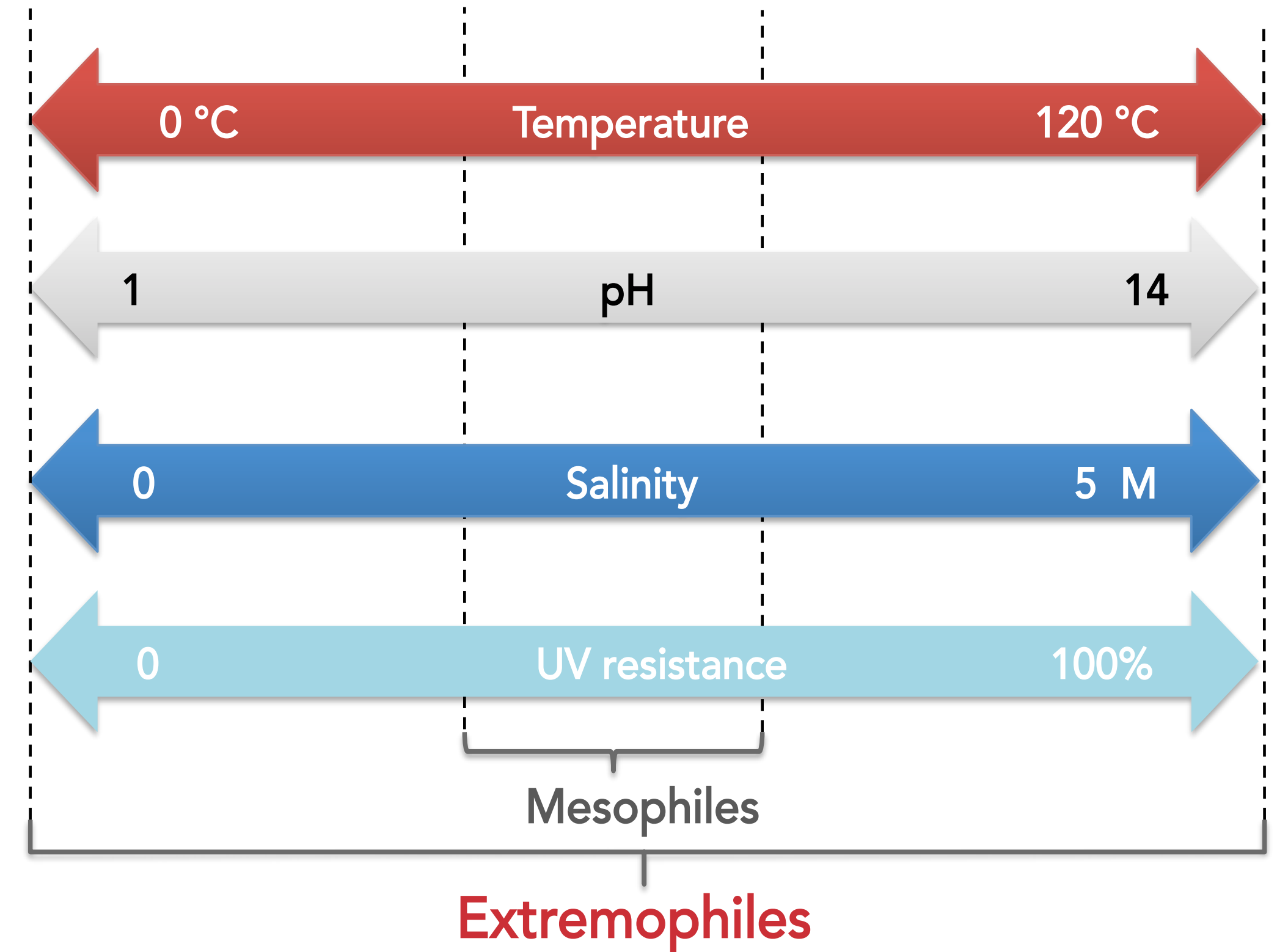
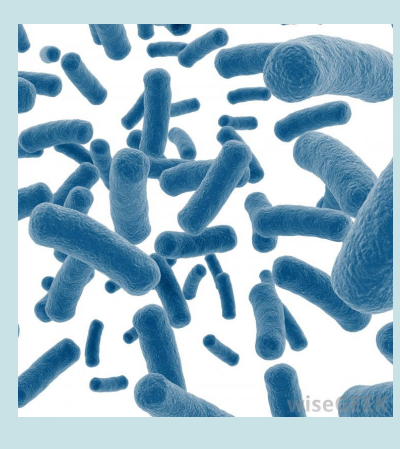



DIVERSE Biobank


Psychrophiles - Halophiles - Acidophiles - (Hyper) Thermophiles - Multi-Extremophiles

- Over 400 isolated strains, with 15 new Extremophiles per year
- Unique microorganisms
- Large Biotechnological Potential



 Specific selective pressures to find the desired types of microorganisms, design of new media and isolation methods.

 Non-standard enzymatic assay development and screening of extremophilic isolates under targeted conditions.

 Whole genome sequencing, bioinformatics analysis and molecular biology techniques applied for optimal recombinant development.

R&D Services for High-Performance Enzymes^(TM)

From discovery to scale-up development, Swissaustral offers innovative solutions for your most challenging projects.



PROVEN RESULTS: Enzymatic activity tested in target matrix product/process during discovery phase, ensuring the presence of enzymatic activity in the desired industry-like conditions.

EXTREMOPHILIC Enzymes

Performant, with optimal activity under extreme conditions.

Reliable, keep high activity in a wide range of temperatures and pH.

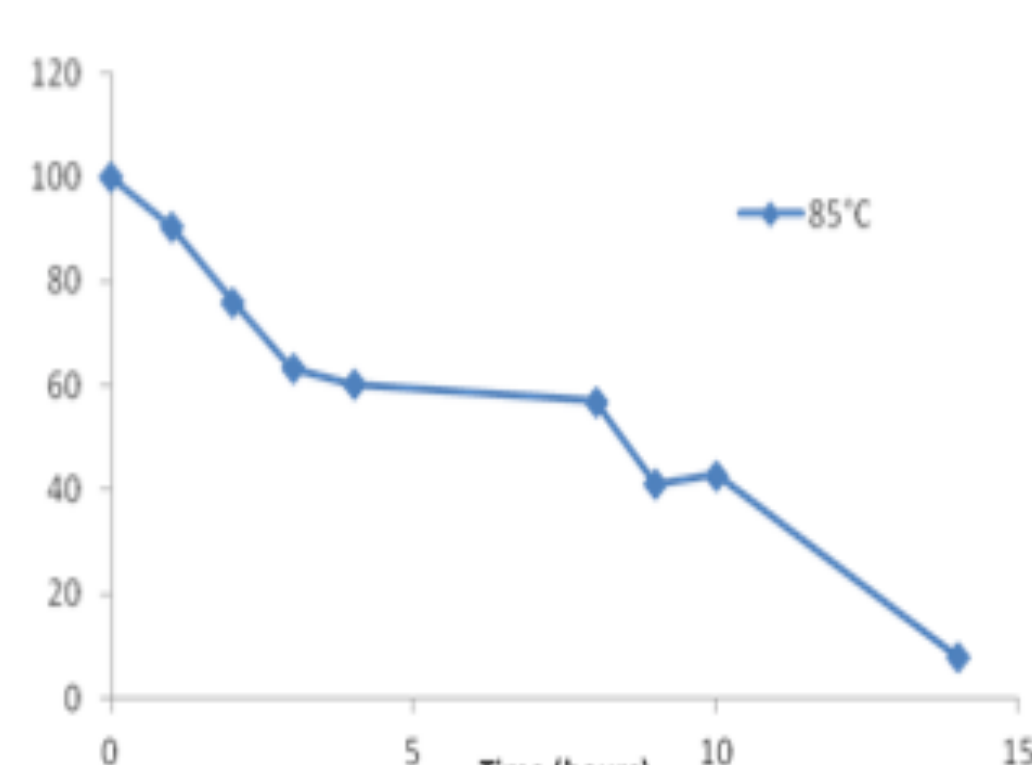
Resistant to organic solvents and proteolysis, suitable for industrial applications.



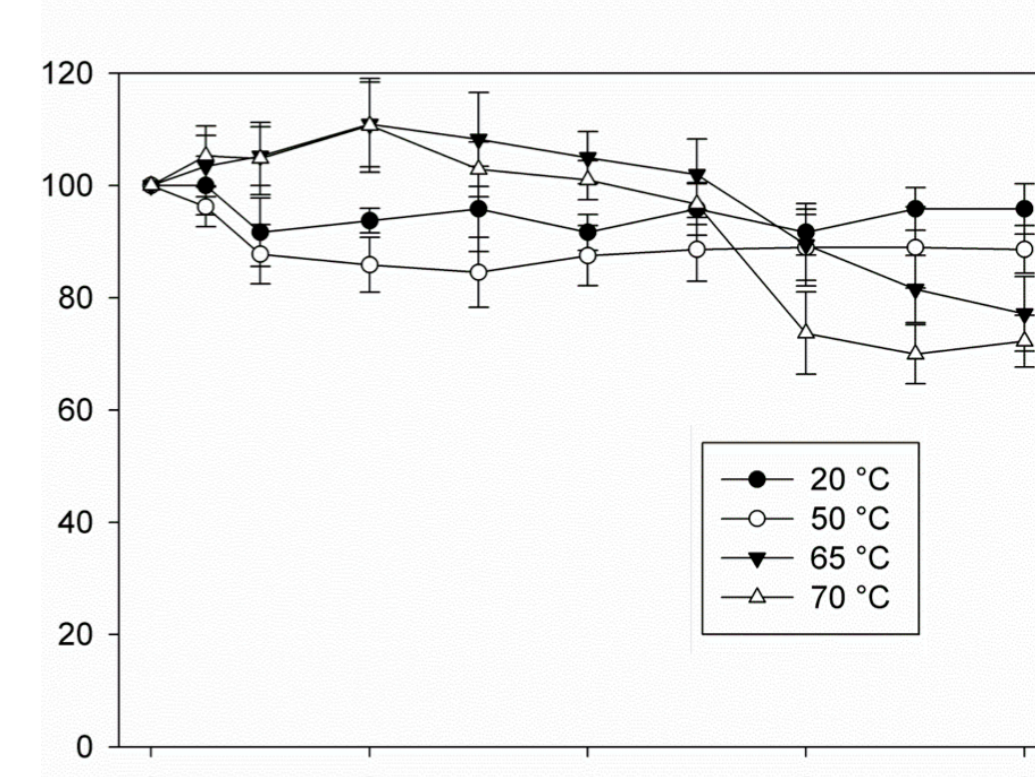
- ✓ Cost effective projects with controlled risk on every phase
- ✓ Recombinant technology for large-scale production
- ✓ Production optimization for technological transfer

High-Performance Enzymes^(TM): Highly ACTIVE and STABLE

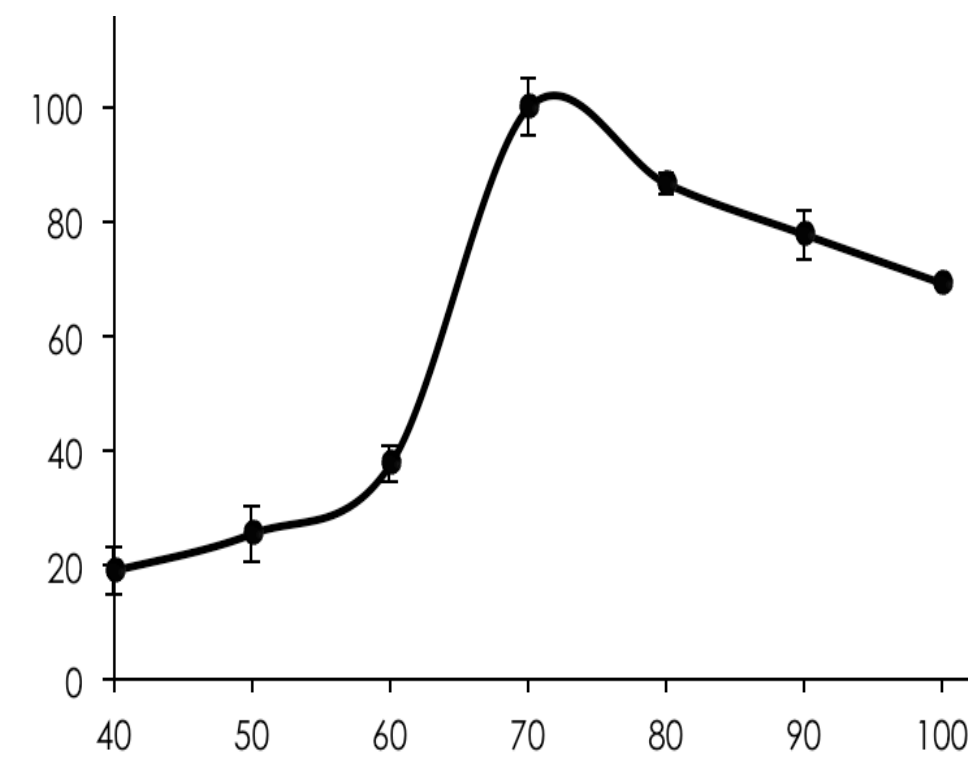
	Nitrilase	Lipase	Laccase	GDH (rec.)	Catalase (rec.)
Specific Activity U/mg	>1000	>2000	>2000	> 150	>7000
Temperature range °C	60 - 100	45 - 85	30 - 100	20 - 60	20 - 70
pH range	4,5 to 7,5	6,5 to 11	6 to 9	7,5-10	5,5 to 10



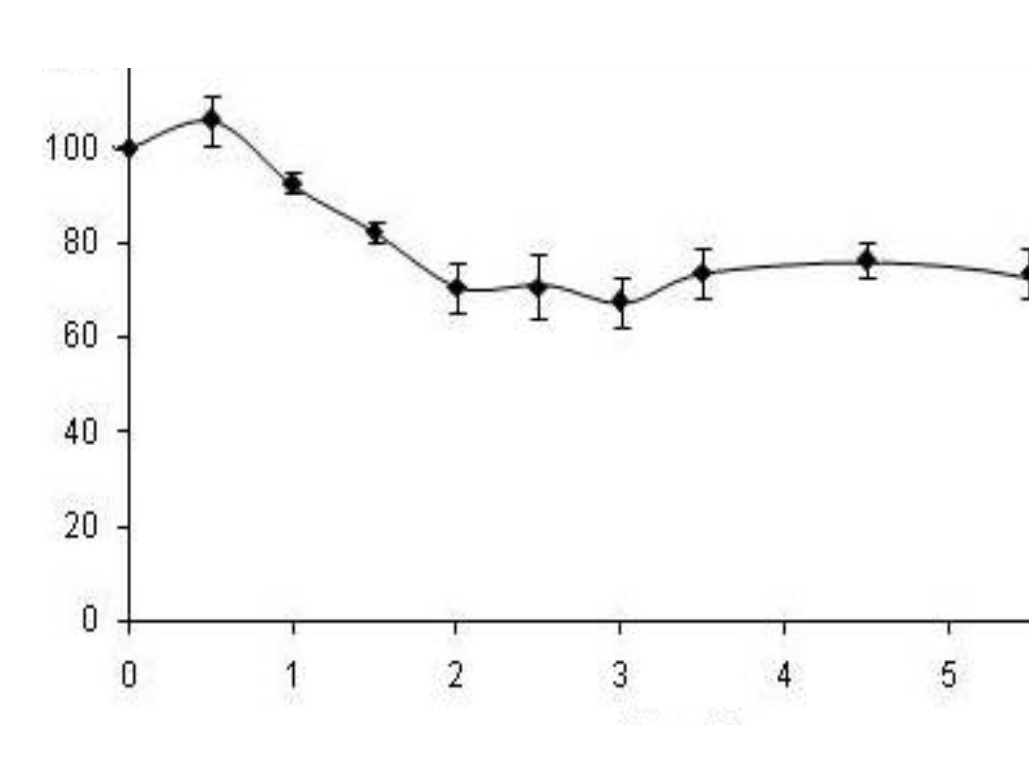
% of relative activity vs time in hours, at 85°C



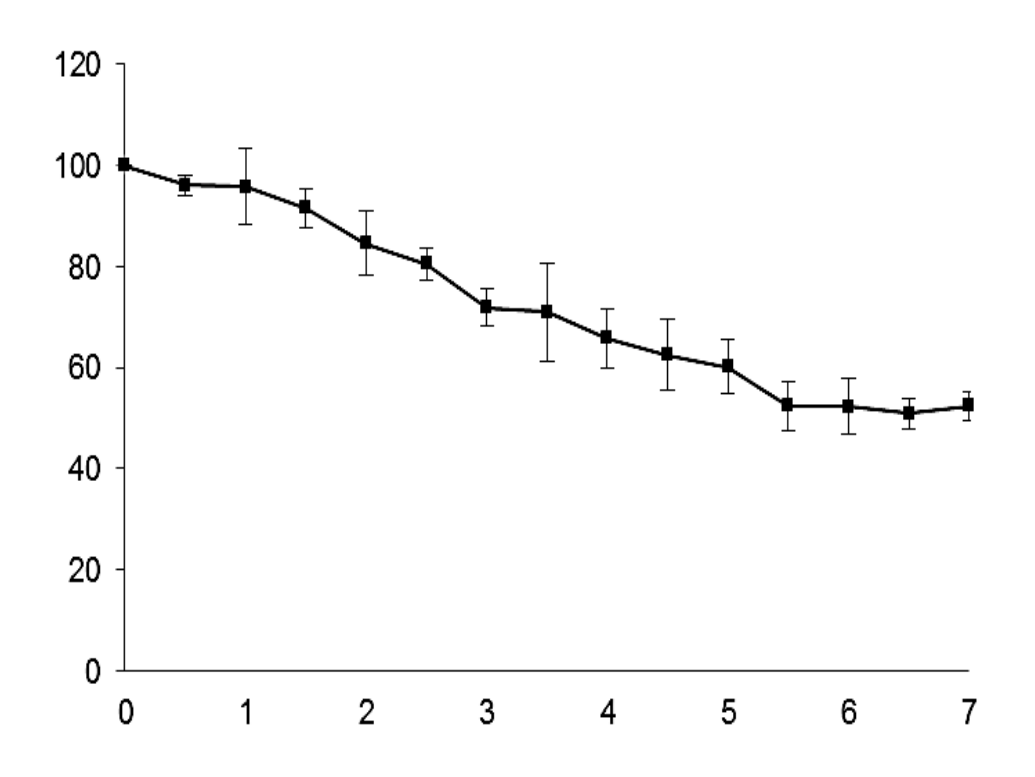
% of relative activity vs time in hours



% of relative activity vs temperature, in °C



% of relative activity vs time in hours, at 100°C



% of relative activity vs time in hours, at 50°C