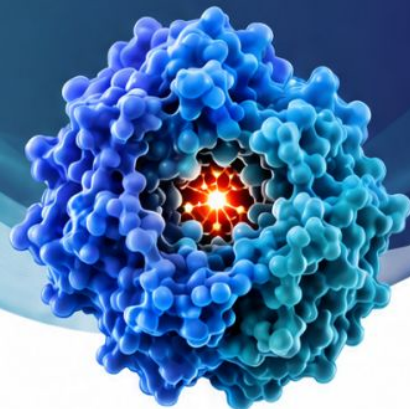


Thermostable & Alkaline-tolerant Enzymatic Bleach Clean-Up

Epygen's recombinant Bleach Clean-Up Enzyme has been cleverly designed to work at higher temperatures and pH ranges so that it can directly work in bleach bath or Biopolishing / Dyeing.

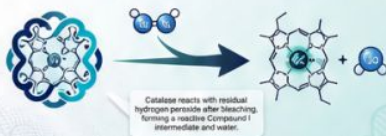
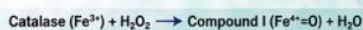


CONVENTIONAL PROCESS vs ENZYME PROCESS

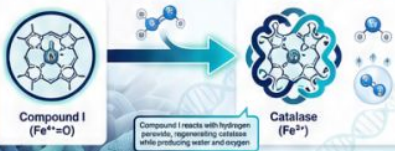


Two-step Catalytic Mechanism

CATALASE BLEACH CLEAN-UP MECHANISM



CATALASE REACTION: PEROXIDE BREAKDOWN



Advantages over Conventional Neutralization



WHY IT MATTERS

20-40 MINUTES SAVED PER BATCH

LOWER WATER, STEAM & CHEMICAL USE

IMPROVED DYE REPRODUCIBILITY



Fermentation Parameters

- Exponential feeding
- Heme supplementation
- Ethanol stress injection
- Triton X-100
- ~92% extracellular secretion



- Reinforced disulfide bridges
- Amino acid shield around the "Heme pocket"



SMARTER ENZYME CONFIGURATION FOR TEXTILE PROCESSING.



RETROX 50L

RETROCELL SYNER-G

RETROX 200L



ENZYME INNOVATION



TRUSTED SCIENCE

ENZYME ACTIVATION ON DEMAND