



# TEKINBIO

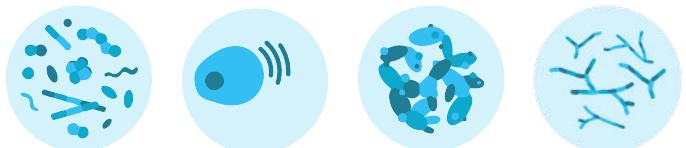
CONCENTRATED TECHNOLOGIES  
IN YOUR BIOREACTOR

**Life Solutions**

# EACH MICRO ORGANISM HAS ITS SPECIFIC NEEDS

Type of cultures:

Bacteria Cell Yeast Fungus



Oxygenation rate, shear stress, medium composition, pH and temperature

We created TEKINBIO  
to provide an optimal environment for your suspended culture

## SCALE UP HOMOGENEOUS RANGE



Lab scale <15 liters Micro Pilot 15 - 150 liters Pilot 150 - 1000 liters Industrial 1 m<sup>3</sup> - 100 m<sup>3</sup>

We maintain the optimal conditions for your culture in the different scales to maximize the growth and performance of your microorganism



# THE + TEKINBIO



AUTOMATIC pH  
REGULATION  
OF THE CULTURE  
MEDIUM  
(0-14 +/- 0.01)



MASTERING THE  
TEMPERATURE  
ACCORDING TO  
YOUR PROCESS



FULLY AUTOMATED SYSTEM  
ADAPTED INSTRUMENTATION  
(Feed filling, oxygen regulation, antifoam...)



OPTIMAL AERATION  
DESIGN TO REACH  
MAXIMUM EFFICIENCY



CUSTOMIZED  
AGITATIONS ADAPTED  
TO YOUR  
MICRO-ORGANISM

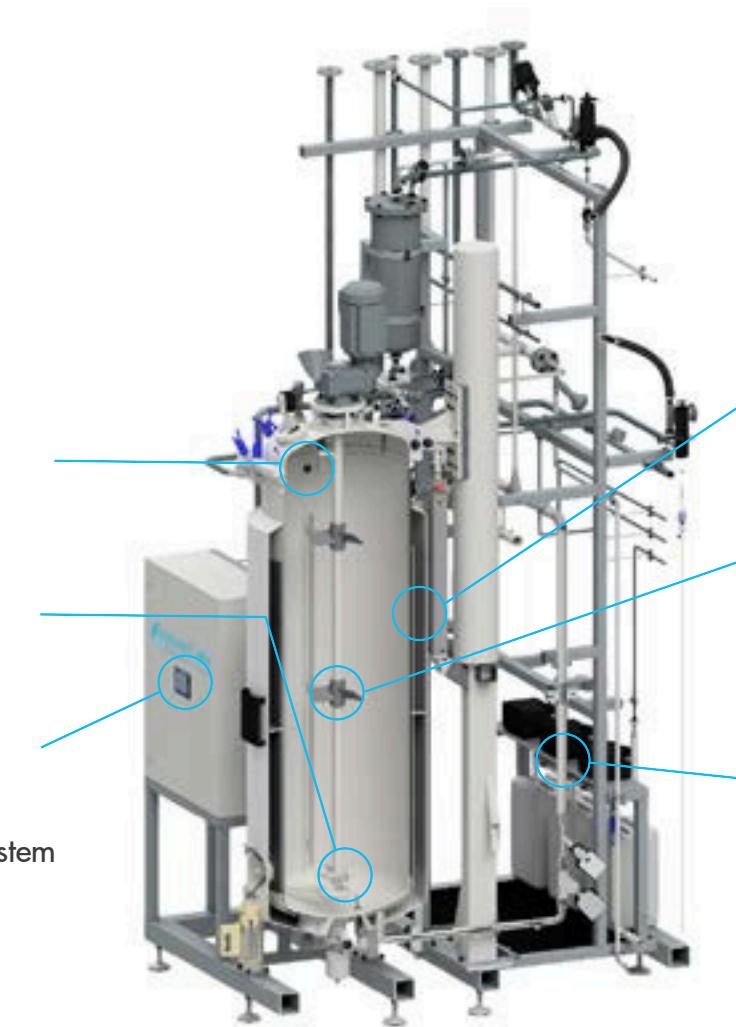


WE OFFER EXPERT PROCESS SERVICES TO  
SCALE-UP AND INDUSTRIALIZE  
YOUR SPECIFIC STRAIN

### OUR CERTIFICATIONS



# TEKINBIO BIOREACTOR MAIN CHARACTERISTICS

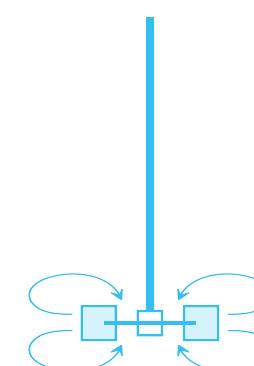


Thermal efficiency with double jacket (optimized heating area and heat transfer)

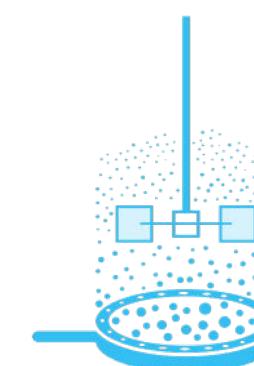
Product homogeneity

Automatic incorporation: medium, inoculation, pH adjustment, anti-foam...

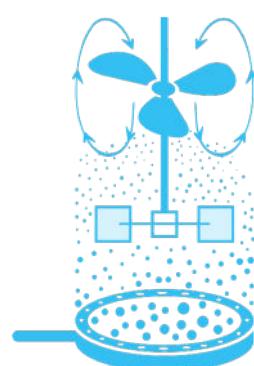
## OUR AERATION EXPERTISE



DISPERSE GAZ WITH  
SPECIFIC SHEAR



INCORPORATE AIR BUBBLES INTO  
THE CULTURE MEDIUM



HOMOGENIZE THE PRODUCT  
IN THE TANK

FLEXIBILITY, EFFICIENCY, RELIABILITY:

# TEKINBIO

VERSATILE SOLUTION FOR BIOREACTOR

BOCCARD ALSO SUPPORTS ITS CUSTOMERS  
WITH COMPLEMENTARY SERVICES:



GUIDANCE



ASSISTANCE



DESIGN STUDIES



PRODUCT STARTUP  
SCALE-UP STUDIES



CFD FOR AGITATORS  
DEFINITION AND OPTIMIZATION



## CONTACT US

**Boccard Life Solutions**

Food & Ingredients



We design, manufacture, assemble and install turnkey processing solutions for our customers worldwide who transform raw materials into products for people's direct consumption.

That is why our centers of excellence (Food & Ingredients, Cosmetics & Hygiene, Pharma & Biotech and Brewery) are committed to achieving the highest levels of quality and safety in over 100 countries, while ensuring optimal productivity to serve demanding markets.

Our experts in Process Intelligence and Project Management work on a partnership basis with companies of all sizes, including major global players, to build new facilities or upgrade existing systems to meet and surpass key performance indicators: product excellence and consistency, efficient time-to-market, responsiveness and flexibility.

In everything we do, our goal is to provide you with the best process experience, now and in the future.

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