

# TEKINBIO

PRECISION FERMENTATION  
BIOREACTOR FOR YOUR SCALE-UP

DESIGNED FOR ANY PRODUCT MADE FROM  
**PRECISION FERMENTATION**

Easily obtain valuable products through a diverse option of cultures:

Bacteria Yeast Fungus



TEKINBIO is designed to provide an optimal environment for your suspended culture

**SCALING UP**

HAS NEVER BEEN EASIER

Large family of capacities from pilot to industrial-scale production

Model	TEKINBIO Pilot	TEKINBIO Industry
Capacity	20 - 1500 L	5 - 100 m3
Operating Temperature	Up to 150°C	
Absolute Headspace Pressure	Up to 2.5 bars	
H/D	2 - 3	
Material	316L	

**THE +  
TEKINBIO**



OPTIMISED AERATION  
DESIGNED TO REACH  
MAXIMUM EFFICIENCY



PERFECT  
HOMOGENEISATION  
VALIDATED BY CFD



FULLY AUTOMATED AND EQUIPPED WITH TRACK ADVANCE™ FOR FERMENTATION, OUR MODULAR DIGITAL SOLUTION FOR REAL-TIME MONITORING, RECIPE MANAGEMENT AND BATCH COMPARISON



PRECISE THERMAL  
REGULATION FOR  
SENSITIVE STRAINS  
AND COMPLEX  
PROCESSES



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



DEMONSTRATED EXPERT PROCESS SERVICES  
TO SCALE-UP AND INDUSTRIALISE YOUR STRAIN

OUR CERTIFICATIONS



**TEKINBIO BIOREACTOR**  
MAIN CHARACTERISTICS

Cleaning-in-Place  
Sterilisation-in-Place

Process-dedicated  
instrumentation  
Fully automated system  
Full traceability with:



Adjustable sparger  
geometry for optimal  
oxygenation and bubble  
dispersion



Thermal efficiency with double  
jacket for optimized heating  
area and heat transfer

Product homogeneity  
through tailor-made  
impellers

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

**YOUR PARTNER FROM LAB TO FAB**

Benefit from end-to-end subject-matter expert support services  
and technical partnership, no matter your in-house experience



Advanced CFD Simulations  
& Precise Mixing Time Validation



Seamless  
USP/DSP Integration



End-to-End Technical  
Assistance & Maintenance



Complete  
International Certifications



EASE, FLEXIBILITY, QUALITY:

# TEKINBIO

PRECISION FERMENTATION BIOREACTOR FOR YOUR SCALE-UP

BOCCARD ALSO SUPPORTS ITS CUSTOMERS  
WITH COMPLEMENTARY SERVICES:



GUIDANCE



ASSISTANCE



DESIGN STUDIES



PRODUCT STARTUP  
SCALE-UP STUDIES



CFD FOR AGITATORS  
DEFINITION AND OPTIMISATION

## CONTACT US

**Boccard Life Solutions**

Food & Ingredients



[food@boccard.com](mailto:food@boccard.com)

[www.boccard.com](http://www.boccard.com)

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.