

Fermentation for Small Molecules—a Special Offer from BOC Sciences

New York City, New York Mar 30, 2022 (Issuewire.com) - *Owing to the comprehensive capabilities of identification, analysis, preservation, etc., BOC Sciences can offer small molecules that are fermented in the culture of living cells. These materials, different from the traditionally synthesized ones, are proved to be more cost-effective, thus better meeting downstream research needs.*

Fermentation is not a stranger to the pharmaceutical industry since synthetic biology has been intensively applied in the production of APIs for decades. Currently, it is gathering an increasing number of fans because of the greater sustainability and ability to access small molecules.

BOC Sciences, in possession of leading biological and analytical expertise, enables fermentation processes to deliver safer and more effective APIs as well as bioactive metabolites. Over the past years, it has been exploring more possibilities of [fermented small molecules](#) that were previously not accessible by chemical synthesis. Up to now, stunning achievements have been made:

Identification Capabilities:

- Microbial morphology and physiology
- DNA base composition analysis (G+C mol%)
- DNA-DNA Hybridization
- rDNA homology analysis

Comprehensive Analytical Capabilities:

- Fully characterizing products with the physical and chemical properties
- Development, optimization, qualification, and validation of test methods
- Compound characterization: GC-MS, LC-MS, NMR, XRD, etc.
- Lot release testing: HPLC, UPLC, IR, UV, etc.
- Stability study
- Troubleshooting

Preservation Methods:

- Regular transplantation method
- Sand pipe method
- Liquid paraffin method
- Freeze vacuum drying method
- Ultra-low temperature freezing method
- Liquid nitrogen ultra-low temperature freezing method, etc.

Many biotech enterprises can provide fermentation CDMO services and fermentation APIs on large scales. Then what makes BOC Sciences stand out? One of its analysts explained, "Small molecule fermentation, analysis, and purification are the basic services we offer, but we can do much more than that. For instance, we can optimize the selection of strains and design experiment schemes exclusively in line with customers' requirements. It indicates that we provide not only one-stop standard fermentation but also customized services."

Another highlight of BOC Sciences lies in the combination of synthetic chemistry and fermentation. "By

saying that fermentation is an advantageous method, we don't mean synthetic chemistry doesn't do any good. On the contrary, we creatively integrate the two complementary approaches to generate better fermentation APIs, intermediates, metabolites, *etc.*," the analyst added.

As one of the most competitive suppliers of fermented small molecules, BOC Sciences is confident to exhibit its abilities and updates to global partners this year. At the upcoming two industry exhibitions: [CPhI North America 2022](#) and [BIO International Convention](#), a group of well-trained professionals from BOC Sciences will be available to address researchers' concerns. If you need more information regarding BOC Sciences and its fermentation business, please visit <https://bio-fermen.bocsci.com/>.

About

BOC Sciences is a leading biotech company concentrating on small molecule fermentation. It has a complete set of workflows spanning from strain development, fermentation optimization, to final analysis, which guarantees the production of qualified APIs, metabolites, and other crucial materials for the pharmaceutical industry.

Media Contact

Alex Brown

account@bocsci.com

1-631-485-4226

Source : BOC Sciences

[See on IssueWire](#)