

UTHARA SURESH

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Microbiology | Probiotics Research and Development | Product Development |
Probiotics production API | Product complaint management | Team Management

CAREER SUMMARY

Biotechnology Professional with knowledge, experience and keen interest in the field of Research and Development of innovative Health care products. An expert to develop process and products according to GMP and with a Good Documentation Practice. Dedicatedly worked for 3 years in pharmaceutical industry with sound knowledge in the field of Research, Production of Probiotics and its application that helps human health care.

PROFESSIONAL EXPERIENCE

2016-2018: Unique Biotech Limited Hyderabad

Designation: Executive

Department: Production

RESPONSIBILITIES

- Worked according to SOP s, GMPs and safety guidelines as Microbiologist in the Production department of Bacillus clausii spore's suspension.
- To carry out cleaning validation, process validation and stability studies for product development.
- To Perform seed media preparation and inoculation for the batch process.
- To Perform in process checks from all phases of the batch process at regular intervals and carry out viable cell count analysis and pathogen testing for the product, with a goal of determining if the product reaches the quality as prescribed.
- To prepare Standard Operating Procedures for various instruments and procedures followed in Production department.
- Record batch manufacturing records, batch processing records for the product as per the observation obtained and Compile them at the end of the process and submit to Quality Assurance department.
- Maintain the environment of the Production unit as per the GMP and responsible for performing environmental monitoring and documenting the same.
- To perform instrumental calibrations as per the SOPs and documenting the same.
- To attend the product complaints from the customer and raise Corrective and Preventive Actions against the same.
- To coordinate with the secondary packing of the product regarding the order of the products and the dispatch of the corresponding products.

2015-2016: Unique Biotech Limited Hyderabad

Designation: Executive

Department: Center for Research and Development

RESPONSIBILITIES

- Worked according to appropriate SOP s, GMPs and safety guidelines in the R&D center.
- To Perform scientific experiments for allotted projects such as process optimization, scale-up operations within the time specified.
- Communicate with the third party for any technology transfer to the R&D center.
- Technology transfer from lab scale to pilot scale once the product is ready for production.
- Report and present scientific/technical results internally and contribute to publications, presentations and patents.
- Maintain the cell bank including distribution of cell cultures and validation of cell cultures with a Good documentation practice.
- Documentation of experimental results of the research lab and maintenance of records in the research lab.

KEY PROJECTS

Streamlining of Probiotic Juice Production: Fortification of juice with probiotic bacteria and thereby analyzing its beneficial probiotic properties and colony forming units. Further formulation and production of powder form of probiotic juice was streamlined.

Optimization Microbial Yield: Optimized the downstream process of *Lactobacillus salivarius*, *Lactobacillus reutri* and *Lactobacillus acidophilus* to maximize the yield. Media optimization and technology transfer of *Bacillus clausii* spore's suspension for Large scale production.

Validation of Probiotic Strength: Analyzed the probiotic properties of all *Lactobacillus* and *Bacillus* species which includes their acid tolerance, bile tolerance, temperature sensitivity, antimicrobial activity and antibiotic sensitivity. The study validated the stability of Lactic acid bacteria in foods.

Acquisition and Maintenance of Bacterial Stocks: Glycerol vial preparation and maintenance of bacterial glycerol stocks. Validation of cell cultures for its stability.

Formulation of chewable probiotic Tablets: Optimized a simple formulation of tablet that was fortified with *Lactobacillus fermentum*. The study validated the stability, taste, and overall consumer acceptability of the product.

CAREER HIGHLIGHTS

- Managed the entire production operation for 6 months in the absence of Manager.
- Played a vital role to set up new production unit for *Bacillus clausii* spores' suspension.
- Successfully implemented new SOPs after proper validation.
- Established new state of the art microbiology lab in the production unit according to GMP.
- Successfully passed GMP and customer audits including Glenmark, Merck, Cipla, Macleods, Alkem and Fourrts.
- Improved the productivity of *Bacillus clausii* spores suspension by 30% in record time to meet customer demands by providing enhanced training to the operators and formulation staffs.
- Increased the productivity of *Lactobacillus reutri* by 3-fold by introduced new SOP.
- Improved the post-lyophilization yield of biomass by formulating state-of-the-art cryo-protectants.

PROFESSIONAL TRAINING

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| 2014 | In-plant training in the Department of Quality Assurance at the Tamilnadu Cooperative Milk Producers Federation Limited, Tamilnadu, India. |
| 2014 | Course on science and technology of non-alcoholic beverages at Central Food Technology Research Institute, Mysore, India. |
| 2013 | In-plant training in the Department of Hematology and Microbiology at Apollo Specialty Hospital, Chennai, India. |
| 2013 | Molecular Biology training at MSME Development Institute, Chennai, India |

TECHNICAL PRESENTATIONS

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| 2013 | Poster: <i>Bioactivity of marine sponge from Gulf of Mannar Coast</i> , National Conference on New Opportunities and Challenges in Microbial Research, Bharathidasan University, Tiruchurapalli, Tamilnadu, India |
| 2012 | Paper: <i>Effect of potassium humate on mulberry and analysis of their nutrients and nanoparticle</i> , Prathyusha Institute of Technology and Management, Chennai |

EDUCATION

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| 2015 | B. Tech Biotechnology, 2015 Sathyabama University, Chennai, India |
| | Higher Secondary School, International Indian Public School, Riyadh, KSA |

PERSONAL PROFILE

Date of Birth: 19.11.1993

Visa Status: Residence Visa under Husband's Sponsorship

Languages Known: English, Hindi, Malayalam, Tamil, Telugu.

Marital status: Married