Abdul Basit

SUMMARY

Dynamic and highly motivated Industrial Biotechnologist with expertise in producing and purifying biological products. Passionate about driving innovation in cutting-edge research environments with a strong commitment to advancing biotechnological solutions.

Contact

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Languages

German: A2
English: Full Working Proficiency

TOOLS & SKILLS

Molecular Biotechnology PCR, ELIZA, GMP, Gel electrophoresis, DNA isolation

Up-streaming Fermentation, Bio-chemical engineering, Design of experiment, Good manufacturing practices

Down-streaming Chromatography, ÄKTA prime plus, TLC, Tangential flow filtration and Dead-end filtration

Instruments Sartorius 5L bio-stat stainless steel, DASGIP Bioreactor System , IKA 2L Bioreactors, scivario eppendorf

WORK EXPERIENCE

Bioprocess Research Assistant **06.2024–Present**
INSEMPRA GMBH IZB MUNICH

◇ Working as a Research Assistant in the bio-processing department to produce oil (C16:1, C18:1) using wild type & genetically engineered yeast species (Wickerhamomyces & Rhodotorula).

◇ Worked on different bioreactor systems (DSGIP & IKA 2L & 10L fermenters).

◇ Worked on different projects involved to optimized media, enhance biomass production and to increase titers.

◇ Worked on SPRIND project which not only aim to increase production of oil but also contributing to circular economy through sustainability.

◇ Worked to increase 2 PE (Phenyethanol) production using a column with different adsorption material on a lab scale.

Resaerch Assistant and Master's Thesis Student 05.2023–05.2024
BIOZENTRUM, WEINBERG CAMPUS HALLE (SAALE)

◇ Topic: Down-scaling and Intensification of Fed-batch fermentation production of Asparaginase B with E.coli.

◇ production using *E.Coli BL21pET11a-ansB*.

◇ Downscaling from 20 L to 5 L fermenter volume.

◇ By increase in Amount of Biomass, our protein concentration was increased from 8 g/L to 10 g/L.

◇ Assisted professor and supervised Master students in upstream processing (Lab task) and developed SOP and laboratory protocols to ensure compliance with quality standards.

Education

M.Sc. Pharmaceutical and Industrial Biotechnology 2021–2024
Martin Luther University Halle-Wittenberg, Halle (Saale), Deutschland.

BS Biotechnology **2016–2020**
University of Sargodha, Sargodha, Pakistan.

Projects

◇ CONTINUOUS FERMENTATION PRODUCTION OF LEVANSUCRASE WITH *Bacillus Megaterium* IN SARTORIUS 5L BIO-STAT STAINLESS STEEL. THE AIM WAS TO INCREASE BIOMASS PRODUCTION.

◇ FED-BATCH FERMENTATION PRODUCTION OF EPSILON-CAPROLACTONE USING WHOLE-CELL BIOCATALYSIS IN 2L FLAT-PANEL BIOREACTOR USING GREEN *E.Coli* PHOTOSYNTHETIC *cyanobacteria Synechocystis PCC6803*.

◇ DOWN-STREAMING OF ASPARAGINASE B FROM *E.Coli BL21 pET11a-AnsB* USING ION EXCHANGE CHROMATOGRAPHY. L-ASPARAGINASE IS SUCCESSFULLY PRODUCED WITH A MEAN SPECIFIC ACTIVITY OF 84.77 U / MG WITH AN ENRICHMENT FACTOR OF 8.2.

◇ **Softwares**: BERKELEY MEDONA, DSWARE (EPPENDORF), IKA SOFTWARE, OPENCHROM (LABLICATE) AND PRIMEVIEW 5.0