Abdul Basit

Pharmaceutical & Industrial Biotechnologist

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Halle (Saale)

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Key Skills

- *Molecular Biotechnology (PCR)*
- *(Up-streaming) Fermentation technology (Sartorius 5L bio-stat stainless steel)*
- *Analytical techniques (Gel electrophoresis, DNA isolation, Nessler's & Bradford assay)*
- *Quality assurance*
- *Design of experiment*
- *Team leadership*
- *Ultra-filtration (TTF and Dead-end)*
- *(Down-streaming) Chromatography (ÄKTA prime plus, HPLC, TLC)*
- *Communication skills*

Softwares

- **Berkeley Medona**
- **NotePad ++**
- **VANTED**
- **COPASI**
- **Open chrome**
- **PRIME view**
- **Microsoft Office**

Profile

Dynamic and highly motivated student of pharmaceutical & Industrial biotechnology. Having expertise in Up-streaming & Down-streaming. Enthusiastic for an innovation in a compelling research environment.

Education

Masters in Pharmaceutical & Industrial Biotechnology
Martin Luther University Halle (Saale)
08/2021 - 12/2023

Bachelors (Hons) in Biotechnology
University of Sargodha
08/2016 - 08/2020

Professional Experience

Research Assistant

Biozentrum Halle
Weinberg Campus Halle (Saale)
07/2023 – 10/2023

- Assisted professor and supervise master students in upstream processing (Lab task).
- Developed SOP for laboratory protocols and ensuring compliance with quality standards.

Scientific laboratory technician

Vital Molecular diagnostics & research Lab
Lahore, Pakistan
08/2020 – 02/2021

- Performed and analysed daily laboratory tests in the lab (CBC, urea etc.)

Medical lab assistant
District Head Quarter Hospital (DHQ)
Sargodha , Pakistan
06/2019 – 10/2019

- Conducted PCR test for corona identification when corona was on its peak.

Languages

- **English** C2 Level
- **German** A1 Level

Personal Projects

Master Thesis in Biozentrum Halle (Saale) : Fed-batch fermentation production of Asparaginase B (Sartorius 5L bio-stat stainless steel)

04/2023 – 09/2023

- large scale production using E.Coli BL21pET11a-ansB
- Downscaling from 11.5 L to 3.5 L fermenter volume.
- By increase in Amount of Biomass our protein concentration is increased from 8 g/L to 10 g/L as compared to 2011 experiment.

More fermentation and specific activity is obtained as compared to 2011 master thesis

Long-time continuous fermentation production of levansucrase (Sartorius 5L bio-stat stainless steel)

09/2022 – 01/2023

- Production of levansucrase with a recombinant Bacillus megaterium.
- Successfully run continuous fermentation for up to 10 complete days with 65% harvest and more products.

Fed-batch fermentation production of epsilon-Caprolactone using whole-cell biocatalysis (2L Flat-panel bioreactor)

- Use of photosynthetic cyanobacteria Synechocystis PCC6803 (Green E.Coli)
- Handsome amount of product is obtained.

Down-streaming of Asparaginase B from E.Coli BL21 pET11a-AnsB

- Ion exchange chromatography using Q-sepharose
- L-Asparaginase is produced successfully with average specific activity of 84.77 U/mg with enrichment factor of 8.2.