

SHILPA A.G

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M.Sc Biotechnology – 6.5 years of experience

CAREER OBJECTIVE

To be a Competent Biotechnology Professional in the challenging environment of the life science & Biotechnology sector where my skills and abilities can be utilized, provide a scope for acquiring knowledge on going advanced technology and contribute for its development.

EXPERIENCE

Karnataka Clinical Research Institute- Clinical data management course (October -December 2021)

Basics of clinical research, clinical data management, protocol, designing and handling of case report form, data entry, data review and data validation, CRF annotation, validation, TMF handling.

Biocon Biologics Limited, Bangalore

Jan 2020-Present

Senior Executive, Quality control

- Performed Method transfer and method validation activities for Detection of retroviral components (RCR) and Host Cell DNA (HCDNA)
- Method transfer of Elisa techniques- Host Cell Proteins (HCP) Leached Protein A (LPA) and carboxypeptidase B (CpB)
- Regular analysis and batch release of In-process and DS samples of monoclonal antibodies.
- Preparation of Method transfer and validation protocol and reports, Standard operating Procedures and Standard testing procedures as per the company guidelines.
- Handling of **QMS elements** like Incidences, Deviations and Change control through Trackwise.
- Handling of Risk assessment and CAPA.
- To execute planned laboratory activities in compliance with cGMP systems and maintain the proper documentation.

Previous Experiences:

- **Worked as a Technician-C at National Institute of Virology Bangalore unit** (July 2016-March2018)
- **Junior Research Fellow (JRF) for the DST funded project entitled "Application of polyclonal hen egg antibodies for the prevention of zoonotic food borne *salmonellae* of poultry"** (From December 2013-december-2015)
- **R&D Chemist at "Sericare"** – a division of Healthline private limited. (June 2013-December 2013)
- Completed training in Biocon R&D/Mammalian cell culture - Analytical lab for the duration of six months (organized by BCIL)

TECHNICAL SKILLS

Biochemical and immunological techniques:

- Handling of QPCR instrument- Agilent and Stratagen for estimation of HCDNA and MVM
- Handling of Biotek and Spectramax Elisa plate reader and Biotek plate washer.
- Agarose electrophoresis for DNA based assays.
- Immunization of white leghorn chicken to raise the antibodies against *Salmonella*.
- Isolation and purification of IgY (IgG) from egg Yolk.
- Purification of proteins (antibodies)
- Native and SDS-PAGE
- Standardization and performing ELISA to detect amount of antibodies produced in egg yolk and serum samples.
- Estimation of amount of protein present in sample by Lowry's method

HPLC Handling

- Method development, validation and analysis of Asiaticoside from *Centella Asiatica* by using
- Reverse phase chromatography (Shimadzu HPLC).
- Analysis of Deoxynijirmycin from mulberry leaves by reverse phase chromatography.
- Desalting and concentration of proteins by using Ultra and Nanofiltration (Nishotech System).
- Estimation of residual amino acid concentration in mammalian fed batch process using reverse phase chromatography.
- Quantification of IgG produced in the CHO cell culture using Protein-A Affinity Chromatography.

Microbial and molecular biology techniques

- Isolation of *Salmonella*, *Listeria* and *E.coli* from meat, feces and egg samples of poultry.
- Biochemical conformation of isolates.
- Isolation of DNA from bacterial samples, tissue samples etc.,
- Genus specific and multiplex PCR for *Salmonella*, *Listeria* and *E.coli* isolates.

Micro biological techniques like culturing of microbes- pour plate, spread plate, isolation of micro organisms, pure culture, Lyophilisation, sonication.

EDUCATIONAL QUALIFICATION:

- Master of Science (M.Sc.) in Bio-technology with 79.58%, from SDM College, UIJIRE, affiliated college under Mangalore University- 2011
- B.Sc in Biotechnology with 76.36% from Mysore University-2009.

ACADEMIC PROJECT:

- Characterization of *E .coli* PepN (aminopeptidaseN): Enzyme activity and role in sodium salicylate stress, at **Indian Institute of Science, Bangalore.**
- On "**protein purification**" at Aristogene Biosciences, Rajaji nagar, Bangalore.
- On DNA isolation, PCR, Electrophoresis and RAPD work at Central Coffee Research Institute, Coffee Research Station

SKILLS AND ABILITIES

- Proficiency with Microsoft Word, Excel and Powerpoint.
- Hard working and time management.
- Diligent and sincere
- Keen interest in learning new concepts
- Excellent team player

PERSONAL DETAILS:

Name	: Shilpa A G
Father's name	: Gopalakrishna A.R
Date of Birth	: 16.02.1989
Marital status	: Married
Languages Known	: English, Hindi and Kannada

ACADEMIC PROJECT:

I do hereby declare that all statements made in this application are true, complete and correct to the best of my knowledge.

Date:

Place:

(Shilpa A.G)