Questionnaire for Custom Chromatography System Engineering

A)   CUSTOMER ADDRESS:

Title/Name: Phone:
Company: Fax:
Department/Function:
PO Box/Street:
City/Post code:
Country:

B)   GENERAL ASPECTS, APPLICATION, SEPARATION PROBLEM:

Flowrate:
System pressure:
Biocompatibility:
Location: Coldroom?

C)   ELUENTS, ELUENT SELECTION:

Aqueous (AB) (state salt type and concentration):

Organic solvents (SR):

Number/type of solvent components:

D)   PUMPS:

Double piston pumps (KD, 50-300bar)
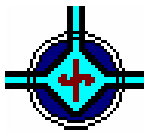Triple piston pumps (Armen, 50-250bar)
Flash pumps (Armen, 25bar)
Valve-less pumps (VP, 0-7bar)
Peristaltic pumps (0-2bar)
Membrane pumps (0-300bar)
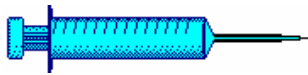additional pulse dampeners

E)   GRADIENT MIXING:

Isocratic
Binary   Low pressure mixing   dynamic
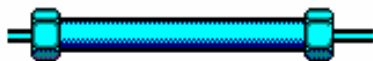Ternary   High pressure mixing   static
Quarternary

F)   SAMPLE INJECTION:

Sample volume from _____ ml to _____ ml

Injection method:
   sample injector   manual injection valve (HDV)
   with system pump   motorised injection valve (HSV)
   separate pump   autosampler

G)   COLUMNS:

Existing
To be supplied

ID [mm]:
Bed height [mm]:

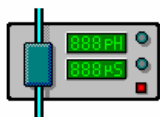Column type/construction:

Bubble trap   Column by-pass   Column switching
                                Column back flush

Packing material:

H)   DETECTION:

UV/VIS   from _____ nm to _____ nm   2-channel
DAD   from _____ nm to _____ nm
Refractive index (RI)
pH
Conductivity
Pressure
Other (specify)
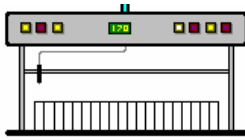
I)   FRACTIONATION:

manual
automatic valve
fraction collector
motorised valve

Volume per fraction: Collection vessel diameter [mm]:
Number of fractions:

Other special features of the system (Valve switching, bypass, etc.), dimension of system,
rack requirements):

J)   DATA ACQUISITION AND SYSTEM CONTROL:

Manually controlled
Computer controlled
Data acquisition, number of channels: 20Bit   24Bit
Line writer, number of channels:
Printer

Control options
Peak sampling (fractionation by peak slope and/or height)
Autosampler Table (autosampler control and sequential run of different methods)

System requirements:

K)   DOCUMENTATION:

Document of conformity, Suppliers certificates, instrument manuals
OQ-support
PQ-support
GMP-conformity
Validation report

Notes:

L)   TIMELINE:

Date for installation:
Date for order:

Responsible parties:
    Project leader Customer: Name:
                                    Department:
                                    Telephone:
                                    e-mail:

    Project leader Kronlab: Name: Lars Henning
                                    Department: System Engineering
                                    Telephone: +49 / 2064 / 427-0
                                    Fax: +49 / 2064 / 427-115
                                    e-mail:henning@ymc.de

    Decision maker customer: Name:
                                    Department:
                                    Telephone:

Budget (Who is responsible for paying/financial decision, budget limits, availability of money):

M)   SKETCH OF SYSTEM