Text instructions
Main method:
  0.00   Base: CV, Vc=73.796 {l}, LA1031_CEX_26pt1cm_H_X_60cm_D   [?]
 0.00   Phase: Method Settings
   0.00   Base: SameAsMain
 0.00   Phase: User Defined
   0.00   Base: SameAsMain
   0.00   Set mark: (Result_Name)#Result_Name
  0.00   Block: Start_Conditions
     0.00   Base: SameAsMain
     0.00   Air_Alarm: Disabled, Disabled
     Comment: Disabling Flow warning prevents "no flow" error when method
     is run.
     0.00   Flow warning: Disabled
     Comment: Reduce flow deviation if method will require flowrate less
     than 10 L/hr
     0.00   FlowDeviation_FIT_PA: 20.0 {l/hour}, -20.0 {l/hour}, 300.0
     {sec}, Enabled
     0.00   FlowDeviation_FIT_PB: 20.0 {l/hour}, -20.0 {l/hour}, 300.0
     {sec}, Enabled
     0.00   PIT_PB: 3.00 {bar}, 0.00 {bar}, 2.70 {bar}, 0.00 {bar}, 0.00
     {bar}, Enabled
     0.00   PIT_PA: 5.00 {bar}, 0.00 {bar}, 3.50 {bar}, 0.00 {bar}, 0.00
     {bar}, Enabled
     Comment: For valley or peak cut, see method notes for guidance to set
     the UV_MinPeak
     0.00   UV_MinPeak: 0.0000 {AU}, 0.0000 {AU}, 0.0000 {AU}
     0.00   Wavelength: 280 {nm}, 0 {nm}, 0 {nm}
     0.00   End_Block
   Comment: THROUGHOUT: Purge volume = 7L, 10L, and 15L for 3/8", 1/2", and
   3/4" skid respectively
   Comment: THROUGHOUT: Manflow = 60% for 3/4" skid. Manflow = 100% for 3/8"
   and 1/2" skid
  0.00   Block: (Startup_Blocks)#Startup_Blocks
     0.00   Base: SameAsMain
    0.00   Block: Prepare_Purge_Col_Bypass
       0.00   Base: Time, ColumnSameAsMain
       0.00   Message: Prepare to purge column bypass line. Ensure column
       is bypassed. , Screen, No sound
       0.00   Pause: Infinite {min}
       0.01   End_Block
    0.00   Block: Purge_Inlet_5_Col_Bypass   [?]
       0.00   Base: Volume, ColumnSameAsMain
       0.00   Air_Alarm: Disabled, Disabled
       0.00   Inlet: Closed, Inlet5

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Method: v002 Scouting Method LA1031 CEX

```
        0.00    BubbleTrap: Bypass
        0.00    Filter: Bypass
        0.00    Column: UpFlow
        0.00    Outlet: Waste
        0.00    ManFlow: 60.0 {%}
        0.00    Set mark: Purge column bypass line with resin storage
        solution.
        Comment: Regardless of skid size, keep purge volume 10 L upflow and
        10 L downflow
        10.00   Column: DownFlow
        20.00   End_Block
    0.00    Block: Place_Column_Inline
        0.00    Base: Time, ColumnSameAsMain
        0.00    Message: Close valves to column bypass loop and open column
        valves (column inline)., Screen, No sound
        0.00    Pause: Infinite {min}
        0.01    End_Block
    0.00    Block: Purge_Inlet_Sample
        0.00    Base: Volume, ColumnSameAsMain
        0.00    Air_Alarm: Disabled, Disabled
        0.00    Inlet: Sample, Closed
        0.00    BubbleTrap: Bypass
        0.00    Filter: Bypass
        0.00    Column: Bypass_Both
        0.00    Outlet: Waste
        0.00    ManFlow: 60.0 {%}
        0.00    Set mark: Purge Inlet Sample: QD00305
        15.00   End_Block
    0.00    Block: Connect_Equil_to_Inlet_1
        0.00    Base: Time, ColumnSameAsMain
        0.00    Message: Connect QD00305 to Inlet 1 and open clamps., Screen,
        No sound
        0.00    Pause: Infinite {min}
        0.01    End_Block
    0.00    Block: Purge_Inlet_4
        0.00    Base: Volume, ColumnSameAsMain
        0.00    Air_Alarm: Disabled, Disabled
        0.00    Inlet: Closed, Inlet4
        0.00    BubbleTrap: Bypass
        0.00    Filter: Bypass
        0.00    Column: Bypass_Both
        0.00    Outlet: Waste
        0.00    ManFlow: 60.0 {%}
        0.00    Set mark: Purge Inlet 4: QD00007
```

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Method: v002 Scouting Method LA1031 CEX

         15.00   End_Block
      0.00   **Block: Purge_Inlet_7**
         0.00   Base: Volume, ColumnSameAsMain
         0.00   Air_Alarm: Disabled, Disabled
         0.00   Inlet: Closed, Inlet7
         0.00   BubbleTrap: Bypass
         0.00   Filter: Bypass
         0.00   Column: Bypass_Both
         0.00   Outlet: Waste
         0.00   ManFlow: 60.0 {%}
         0.00   Set mark: Purge Inlet 7: QD00346
        15.00   End_Block
      0.00   End_Block
   0.00   **Block: (Prepare_Purge_Skid_Filter)#Prepare_Purge_Skid_Filter**
      0.00   Base: Time, ColumnSameAsMain
      0.00   Message: Prepare to purge the skid filter., Screen, No sound
      0.00   Pause: Infinite {min}
      0.01   End_Block
   0.00   **Block: (Purge_Skid_Filter_Inlet_1)#Purge_Skid_Filter_Inlet_1**
      0.00   Base: Volume, ColumnSameAsMain
      0.00   Air_Alarm: Disabled, Disabled
      0.00   Inlet: Inlet1, Closed
      0.00   BubbleTrap: Inline
      0.00   Filter: Inline
      0.00   Column: Bypass_Both
      0.00   Outlet: Waste
      0.00   ManFlow: 60.0 {%}
      0.00   Set mark: Filter Wetting and Purge of Inlet 1 QD00305
   Comment: Regardless of skid size, keep purge volume 20 L
     20.00   End_Block
   0.00   **Block: (Flush_Outlet_Mainstreams_Equil)**
   #Flush_Outlet_Mainstreams_Equil
      0.00   Base: Volume, ColumnSameAsMain
      0.00   Air_Alarm: Disabled, Disabled
      0.00   Inlet: Inlet1, Closed
      0.00   BubbleTrap: Inline
      0.00   Filter: Inline
      0.00   Column: Bypass_Both
      0.00   ManFlow: 60.0 {%}
      0.00   Fractions: 3, 5.0 {l}, Outlet1
   Comment: Update end block volume to number of MS times 5L for each
   outlet
     15.00   End_Block

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    0.00   **Block: (Pause_attach_outlet_containers)**
#Pause_attach_outlet_containers
   0.00   Base: Time, ColumnSameAsMain
   0.00   Message: Attach Outlets to effluent containers per ticket
instructions., Screen, No sound
   0.00   Pause: Infinite {min}
   0.01   End_Block
   0.00   **Block: (Pre-Use_Sanitization)#Pre-Use_Sanitization**
   0.00   Base: SameAsMain
   0.00   Block: Pre_Use_Column_Sanitization
    0.00   Base: SameAsMain
    0.00   Air_Alarm: Disabled, Enabled
    0.00   FIT_PB_Totalizer_Reset
    0.00   Inlet: Closed, Inlet4
    0.00   BubbleTrap: Inline
    0.00   Filter: Inline
    0.00   Column: DownFlow
    0.00   Outlet: Waste
    0.00   Flow: (200)#Pre-Use_Sani_Flowrate {cm/h}
    0.00   Set mark: Pre-Use Column Sanitization Start
    2.00   Snapshot: Pre-Use Column Sanitization End
    2.00   End_Block
   0.00   Block: Pause_Complete_Sanitization
    0.00   Base: Time, ColumnSameAsMain
    0.00   Pause: 30.00 {min}
    0.01   End_Block
   0.00   End_Block
   0.00   **Block: Purge_B_Pump**
   0.00   Base: Time, ColumnSameAsMain
   0.00   Air_Alarm: Disabled, Disabled
   0.00   Inlet: Closed, Inlet7
Comment: Change inlet to match first inlet used from B pump
   0.00   BubbleTrap: Bypass
   0.00   Filter: Bypass
   0.00   Column: Bypass_Both
   0.00   Outlet: Waste
   0.00   ManFlow: 60.0 {%}
   0.00   Set mark: Purge Inlet 7: QD00346
   2.00   End_Block
   0.00   **Block: Purge_A_Pump**
   0.00   Base: Time, ColumnSameAsMain
   0.00   Air_Alarm: Disabled, Disabled
   0.00   Inlet: Inlet1, Closed
Comment: Change inlet to match first inlet used from A pump

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```
     0.00    BubbleTrap: Inline
     0.00    Filter: Inline
     0.00    Column: Bypass_Both
     0.00    Outlet: Waste
     0.00    ManFlow: 60.0 {%}
     0.00    Set mark: Purge Inlet sample: QD00305
     2.00    End_Block
  0.00    Block: Equilibration
     0.00    Base: SameAsMain
     0.00    Air_Alarm: Disabled, Enabled
     0.00    FIT_PA_Totalizer_Reset
     0.00    FIT_PB_Totalizer_Reset
     0.00    FIT_PA+PB_Totalizer_Reset
     0.00    Inlet: Inlet1, Inlet7
     0.00    BubbleTrap: Inline
     0.00    Filter: Inline
     0.00    Column: DownFlow
     0.00    Outlet: Waste
     0.00    GradMode: FlowGradient
     0.00    Gradient: 10.0 {%B}, 0.00 {base}
     0.00    Flow: (200)#Equil_Flowrate {cm/h}
     0.00    Set mark: Column Equil Start
     3.00    Snapshot: Equil End
     3.00    End_Block
  0.00    Block: UV_Auto_Zero
     0.00    Base: Time, ColumnSameAsMain
     0.00    AT_PF_AZ
     0.10    End_Block
  0.00    Block: (Connect_Charge_to_Inlet_Sample)
  #Connect_Charge_to_Inlet_Sample
     0.00    Base: Time, ColumnSameAsMain
     0.00    Message: Connect Charge to Inlet Sample and open clamps.,
     Screen, No sound
     0.00    Pause: Infinite {min}
     0.01    End_Block
  0.00    Block: Charge
     0.00    Base: Volume, ColumnSameAsMain
     0.00    Snapshot: Charge Begin
     0.00    Air_Alarm: Disabled, Enabled
     0.00    FIT_PA_Totalizer_Reset
     0.00    Inlet: Sample, Closed
     0.00    BubbleTrap: Inline
     0.00    Filter: Inline
     0.00    Column: DownFlow
```

```
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     0.00   Outlet: Waste
     0.00   Flow: (200)#Charge_Flowrate {cm/h}
     0.00   Set mark: Column Charge Start
     (800.00)#Set_Charge_Volume   Snapshot: Charge End
     800.00   End_Block
```
0.00   Block: Post_Charge_Wash
```
     0.00   Base: SameAsMain
     0.00   Air_Alarm: Disabled, Enabled
     0.00   FIT_PA_Totalizer_Reset
     0.00   FIT_PB_Totalizer_Reset
     0.00   FIT_PA+PB_Totalizer_Reset
     0.00   Inlet: Inlet1, Inlet7
     0.00   BubbleTrap: Inline
     0.00   Filter: Inline
     0.00   Column: DownFlow
     0.00   Outlet: Waste
     0.00   GradMode: FlowGradient
     0.00   Gradient: 10.0 {%B}, 0.00 {base}
     0.00   Flow: (200)#Post_Charge_Wash_Flowrate {cm/h}
     0.00   Set mark: Post_Charge_Wash
     2.00   Snapshot: Post Charge Wash End
     2.00   Watch off: AT_PF_UV_1
     2.00   End_Block
```
0.00   Block: (Elution)#Elution
```
     0.00   Base: SameAsMain
     0.00   Air_Alarm: Disabled, Enabled
     0.00   FIT_PA_Totalizer_Reset
     0.00   FIT_PB_Totalizer_Reset
     0.00   FIT_PA+PB_Totalizer_Reset
     0.00   Inlet: Inlet1, Inlet7
     0.00   BubbleTrap: Inline
     0.00   Filter: Inline
     0.00   Column: DownFlow
     0.00   Outlet: Waste
     0.00   Flow: (200)#Elution_Flowrate {cm/h}
     Comment: FS will go to Outlet Waste
     0.00   Gradient: 90.0 {%B}, 10.00 {base}
     0.00   GradMode: FlowGradient
     0.00   Set mark: Elution - FS
     0.00   Snapshot: Start FS
     0.00   Watch: PIT_PA., Greater than, 3.00 {bar}, Elution_Message
        0.00   Base: SameAsMain
        0.00   Message: Pause during elution may trigger UV and impact
     mainstream collection, Screen, No sound
```

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        0.00   End_Block
    0.00   **Watch: PIT_PB., Greater than, 2.50 {bar}, Elution_Message_PB**
        0.00   Base: SameAsMain
        0.00   Message: Pause during elution may trigger UV and impact
        mainstream collection, Screen, No sound
        0.00   End_Block
    0.00   **Watch: PIT_PB., Greater than, 2.70 {bar}, Slow_Flow**
        0.00   Base: SameAsMain
        0.00   Flow: (150)#Reduced_Elution_Flow {cm/h}
        0.00   End_Block
    Comment: LHM4350 Compensation Factor w/2mm Path = 4.92
    0.00   **Block: Watch_UV**
        0.00   Base: SameAsMain
        0.00   **Watch: AT_PF_UV_1, Greater than, 0.2033 {AU}, Collect_Peak**
            0.00   Base: SameAsMain
            0.00   Outlet: (Outlet1)#MS_Outlet
            0.00   Set mark: Elution - MS
            0.00   Snapshot: Start MS Collection
            0.00   **Watch: AT_PF_UV_1, Greater than, 1.5000 {AU},**
            watch_Less_Than
                0.00   Base: SameAsMain
                0.00   Watch: AT_PF_UV_1, Less than, 0.8130 {AU}, End block
                0.00   End_Block
            0.00   End_Block
        0.00   End_Block
    10.00   Gradient: 90.0 {%B}, 0.00 {base}
    10.00   GradMode: FlowGradient
    12.00   Snapshot: Elution End
    12.00   Watch off: AT_PF_UV_1
    12.00   End_Block
    0.00   **Block: (Elution_Full_Backside)#Elution_Full_Backside**
    0.00   Base: SameAsMain
    0.00   Air_Alarm: Disabled, Enabled
    0.00   FIT_PA_Totalizer_Reset
    0.00   FIT_PB_Totalizer_Reset
    0.00   FIT_PA+PB_Totalizer_Reset
    0.00   Inlet: Inlet1, Inlet7
    0.00   BubbleTrap: Inline
    0.00   Filter: Inline
    0.00   Column: DownFlow
    0.00   Outlet: Waste
    0.00   Flow: (200)#Elution_Flowrate {cm/h}
    Comment: FS will go to Outlet Waste
    0.00   GradMode: FlowGradient

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```
     0.00    Gradient: 90.0 {%B}, 10.00 {base}
     0.00    Set mark: Elution - FS
     0.00    Snapshot: Start FS
     0.00    Watch: PIT_PA., Greater than, 3.00 {bar}, Elution_Message
       0.00    Base: SameAsMain
       0.00    Message: Pause during elution may trigger UV and impact
     mainstream collection, Screen, No sound
       0.00    End_Block
     0.00    Watch: PIT_PB., Greater than, 2.50 {bar}, Elution_Message_PB
       0.00    Base: SameAsMain
       0.00    Message: Pause during elution may trigger UV and impact
     mainstream collection, Screen, No sound
       0.00    End_Block
     Comment: LHM4350 Compensation Factor w/2mm Path = 4.92
     0.00    Watch: PIT_PB., Greater than, 2.70 {bar}, Slow_Flow
       0.00    Base: SameAsMain
       0.00    Flow: (150)#Reduced_Elution_Flow {cm/h}
       0.00    End_Block
     0.00    Block: Watch_UV_1
       0.00    Base: SameAsMain
       0.00    Watch: AT_PF_UV_1, Greater than, 0.2033 {AU}, Collect_Peak_1
         0.00    Base: SameAsMain
         0.00    Outlet: (Outlet1)#MS_Outlet
         0.00    Set mark: Elution - MS
         0.00    Snapshot: Start MS Collection
         0.00    Watch: AT_PF_UV_1, Greater than, 1.5000 {AU},
         watch_Less_Than_1
           0.00    Base: SameAsMain
           0.00    Watch: AT_PF_UV_1, Less than, 0.8130 {AU}, stop_Collect
             0.00    Base: SameAsMain
             0.00    Outlet: Waste
             0.00    Set mark: Elution - BS
             0.00    Snapshot: Mainstream Collection End -Start BS
             Comment: BS will go to Outlet Waste
             0.00    End_Block
           0.00    End_Block
         0.00    End_Block
       0.00    End_Block
    10.00    Gradient: 90.0 {%B}, 0.00 {base}
    10.00    GradMode: FlowGradient
    12.00    Snapshot: Elution End
    12.00    Watch off: AT_PF_UV_1
    12.00    End_Block
   0.00    Block: Post_Use_Sanitization
```

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```
      0.00   Base: SameAsMain
      0.00   Block: Post_Use_Column_Sanitization
        0.00   Base: SameAsMain
        Comment: Turn off the pressure watches from Elution:
        0.00   Watch off: PIT_PA.
        0.00   Watch off: PIT_PB.
        0.00   Watch off: AT_PF_UV_1
        0.00   New chromatogram: PostUseColSanitz
        0.00   Snapshot: Mainstream End, Begin Post Use Column Sanitization
        0.00   FIT_PB_Totalizer_Reset
        0.00   Inlet: Closed, Inlet4
        0.00   BubbleTrap: Inline
        0.00   Filter: Inline
        0.00   Column: UpFlow
        0.00   Outlet: Waste
        0.00   Flow: (200)#Post_Use_Sani_Flowrate {cm/h}
        0.00   Injection_Mark
        0.00   Set mark: Post Use Column Sanitization Start
        2.00   FlowDeviation_FIT_PA: 20.0 {l/hour}, -20.0 {l/hour}, 300.0
        {sec}, Disabled
        2.00   FlowDeviation_FIT_PB: 20.0 {l/hour}, -20.0 {l/hour}, 300.0
        {sec}, Disabled
        2.00   Snapshot: End Post Use Column Sanitization
        2.00   End_Block
      0.00   Block: Pause_Complete_Sanitization_
        0.00   Base: Time, ColumnSameAsMain
        0.00   Pause: 30.00 {min}
        0.01   End_Block
      0.00   End_Block
    0.00   Block: (Column_Storage)#Column_Storage
      0.00   Base: SameAsMain
      0.00   FlowDeviation_FIT_PA: 20.0 {l/hour}, -20.0 {l/hour}, 300.0
      {sec}, Enabled
      0.00   FlowDeviation_FIT_PB: 20.0 {l/hour}, -20.0 {l/hour}, 300.0
      {sec}, Enabled
      0.00   Air_Alarm: Disabled, Enabled
      0.00   FIT_PB_Totalizer_Reset
      0.00   Inlet: Closed, Inlet5
      0.00   BubbleTrap: Inline
      0.00   Filter: Inline
      0.00   Column: UpFlow
      0.00   Outlet: Waste
      0.00   Flow: (200)#Storage_Flowrate {cm/h}
      0.00   Set mark: Column Storage
```

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```
      2.00    Snapshot: Column_Storage
      2.00    End_Block
    0.00    Block: (Blank)#Blank
      0.00    Base: SameAsMain
      0.00    End_Block
    0.00    Block: Return_to_Default
      0.00    Base: Time, Any
      0.00    ManFlow: 0.0 {%}
      0.05    Filter: Bypass
      0.10    Column: Bypass_Both
      0.15    BubbleTrap: Inline
      0.15    Inlet: Closed, Closed
      0.50    Outlet: Closed
      0.50    End_Block
    0.00    Block: End_of_Run_Delay
      0.00    Base: Time, Any
      0.10    End_Block
```

Scouting

Run	Included	Startup_Blocks	Prepare_Purge_Skid_Filter	Purge_Skid_Filter_Inlet_1
1	Yes	Startup_Blocks	Prepare_Purge_Skid_Filter	Purge_Skid_Filter_Inlet_1
2	Yes	Blank	Blank	Blank
3	Yes	Blank	Blank	Blank

Run	Included	Flush_Outlet_Mainstreams_Equil	Pause_attach_outlet_containers	Pre-Use_Sanitization
1	Yes	Flush_Outlet_Mainstreams_Equil	Pause_attach_outlet_containers	Pre-Use_Sanitization
2	Yes	Blank	Blank	Blank
3	Yes	Blank	Blank	Blank

Run	Included	Pre-Use_Sani_Flowrate	Equil_Flowrate	Connect_Charge_to_Inlet_Sample
1	Yes	200	200	Connect_Charge_to_Inlet_Sample
2	Yes	200	200	Blank
3	Yes	200	200	Connect_Charge_to_Inlet_Sample

Run	Included	Charge_Flowrate	Set_Charge_Volume	Post_Charge_Wash_Flowrate
1	Yes	200	800.00	200
2	Yes	200	800.00	200

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Run	Included	Charge_Flowrate	Set_Charge_Volume	Post_Charge_Wash_Flowrate
3	Yes	200	800.00	200

Run	Included	Elution	Elution_Flowrate	Reduced_Elution_Flow
1	Yes	Blank	200	150
2	Yes	Elution	200	150
3	Yes	Elution	200	150

Run	Included	MS_Outlet	Elution_Full_Backside	Post_Use_Sani_Flowrate
1	Yes	Outlet1	Elution_Full_Backside	200
2	Yes	Outlet2	Blank	200
3	Yes	Outlet3	Blank	200

Run	Included	Column_Storage	Storage_Flowrate	Blank
1	Yes	Blank	200	Blank
2	Yes	Blank	200	Blank
3	Yes	Column_Storage	200	Blank

Method information
Signatures
Date:4/4/2024 7:25:37 AM -04:00
Description:This method is signed for LA1031 CEX on 4Apr2024
User name:c304117
Full name:Helen Corbat
Job title:Engineer - BRD Technical Operations
Lock status:The item is locked

Questions
No. 1: Is QD00305 connected to Inlet Sample?
Question type: Mandatory
Answer type: Multiple choice

No. 2: Is QD00007 connected to Inlet 4?
Question type: Mandatory
Answer type: Textual input

No. 3: Is QD00008 connected to Inlet 5?
Question type: Mandatory
Answer type: Multiple choice

No. 4: Is QD00346 connected to Inlet 7?

Question type: Mandatory