Materials needed

* Cell culture, harvest
* Scratchers 831.832,Zellschaber 16cm 2-Pos.-Klinge,Sarstedt
* Knockout-Media

A1443001, DMEM, no glucose, no glutamine, no phenol red-500 mL, life Technologies

* Solvents
  + Methanol  
    1.060.351.000, METHANOL HYPERGRADE for LC, Millipore, VWR
* Chloroform  
  1.02432 EMD Millipore Chloroform
* 13C Substrates ***Always calculate concentrations with regard to molecular mass!***
  + Glucose: GLUCOSE-D U-13C6 99 Prozent 13C in 10g, CLM, EURISO-TOP GmbH
* Glutamine (not yet needed)  
  CLM-1822-H-0.5, GLUTAMINE-L U-13C5 99%13C, Cambridge Isotope, Eurisotop
* Pyruvate

490733 Aldrich Sodium pyruvate-3-13C

* 12 C substrates ***Always calculate concentrations with regard to molecular mass!***
  + Glucose G8270-100G, D-(+)-GLUCOSE, Sigma-Aldrich, Sigma -Aldrich

* For Glutamine use 25030024, L-Glutamine (200 mM)-100 mL, life Technologies
* Pyruvate

P4562 Sigma Sodium pyruvate

* Lysine, L5501-10MG, Sigma
* Arginine, A8094-25G, Sigma