```
model = changeRxnBounds(model, 'EX_glc(e)',-18.5,'l');%maxglucoseuptake
model = changeRxnBounds(model, 'EX_o2(e)', -1000, 'l');%oxygenunlimited
model = changeObjective(model, 'Biomass_Ecoli_core_N(w/GAM)-Nmet2');%objectivefunc
FBAsolution = optimizeCbModel(model, 'max')
FBAsolution.f
fluxData = FBAsolution.v;
nonZeroFlag = 1;
printFluxVector(model, fluxData, nonZeroFlag)
FBAsolution =
  struct with fields:
    origStatText: []
               f: 1.6531
              f0: NaN
              f1: 1.6531
              f2: NaN
               v: [95×1 double]
               y: [72×1 double]
               w: [95×1 double]
               s: [72×1 double]
          solver: 'glpk'
       algorithm: 'default'
            stat: 1
        origStat: 5
            time: 0.0150
           basis: []
          vars_v: []
               x: [95×1 double]
ans =
    1.6531
                           3.658e-29
ACKr
ACONTa
                               10.37
ACONTb
                               10.37
AKGDH
                                8.582
ATPM
                                 8.39
                               80.61
Biomass_Ecoli_core_N(w/GAM)-Nmet2
                                                1.653
CO2t
                               -40.65
CS
                               10.37
CYTBD
                               77.48
ENO
                               26.84
                               40.65
EX_co2(e)
EX_glc(e)
                               -18.5
```

52.69

33.16

-9.014 -38.74

-6.081

13.56

6.374e-30 8.582

EX_h2o(e)

EX_nh4(e)

EX_o2(e)

EX_pi(e)

FBA FORti

FUM

EX_h(e)

G6PDH2r GAPD GLCpts GLNS GLUDy GND H2Ot ICDHyr MDH NADH16 NH4t O2t PDH PFK PFL	9.881 29.31 18.5 0.4227 -8.591 9.881 -52.69 10.37 8.582 68.9 9.014 38.74 16.56 13.56 6.374e-30
PFL	6.374e-30
PGI	8.28
PGK	-29.31
PGL	9.881
PGM	-26.84
PIt2r	6.081
PPC	4.737
PTAr	-3.692e-29
PYK	2.744
RPE	5.399
RPI	-4.482
SUCDi	8.582
SUCOAS	-8.582
TALA	2.998
TKT1	2.998
TKT2	2.401
TPI	13.56

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