

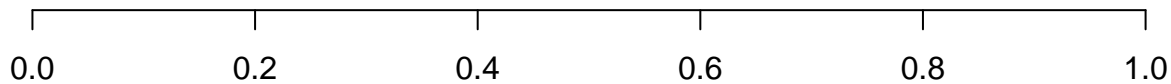
MS measurements
(error bars= $\pm 2 \cdot \text{dev}$)

Cit



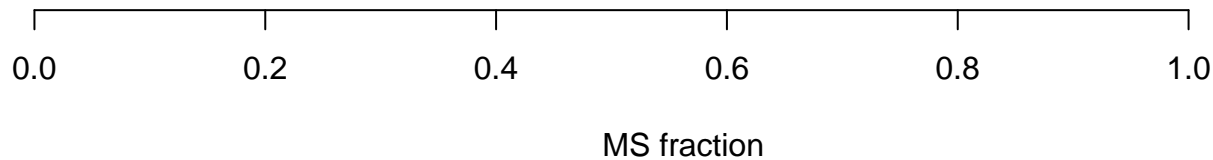
meas

sim

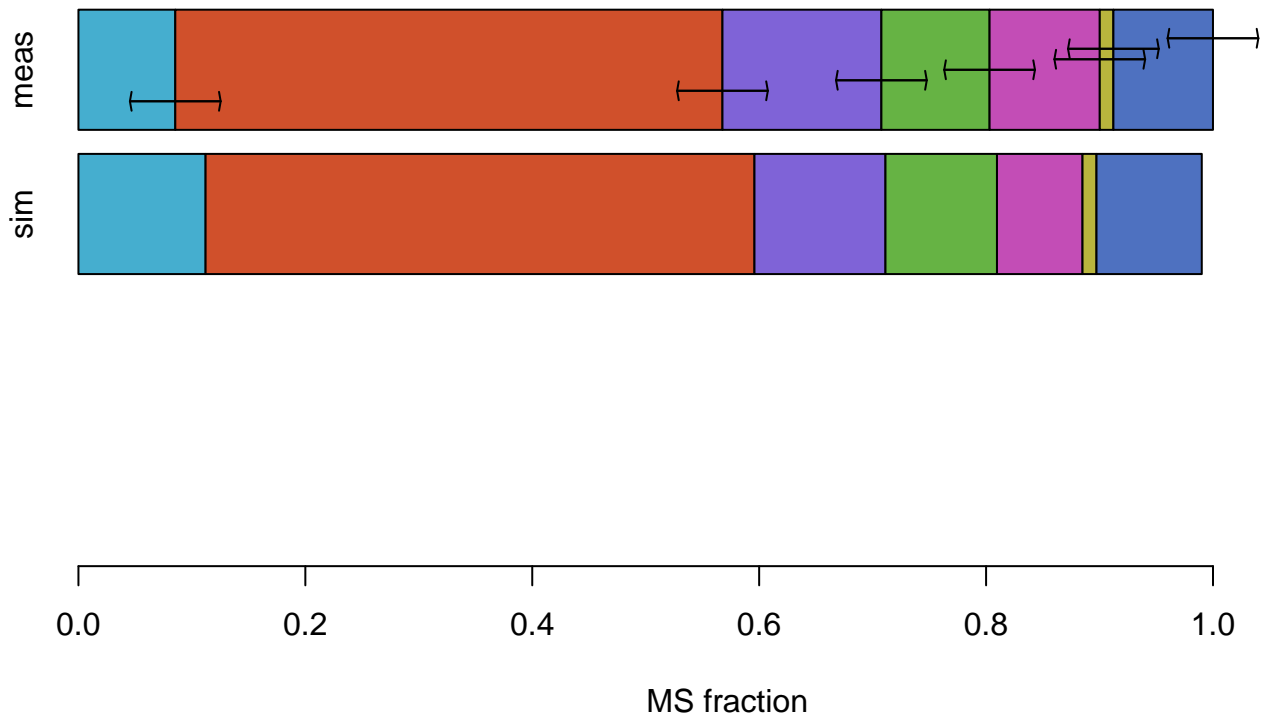


MS fraction

Fru6P



FruBP

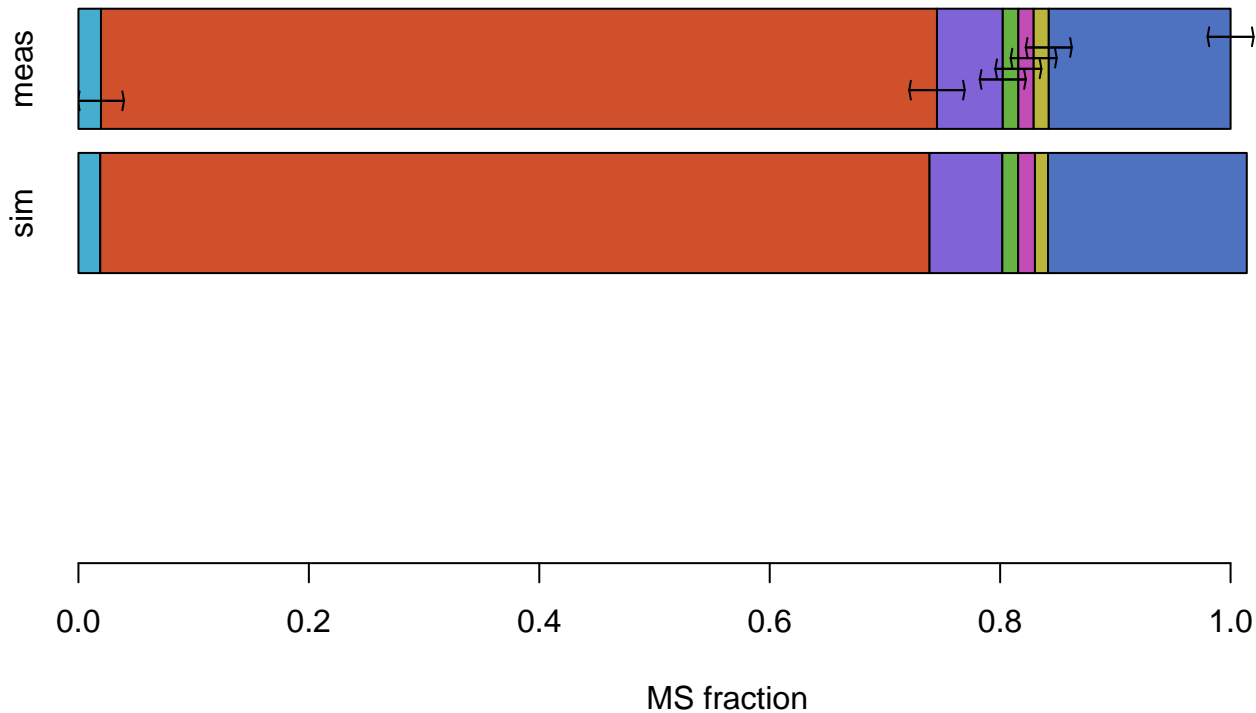


Glc6P

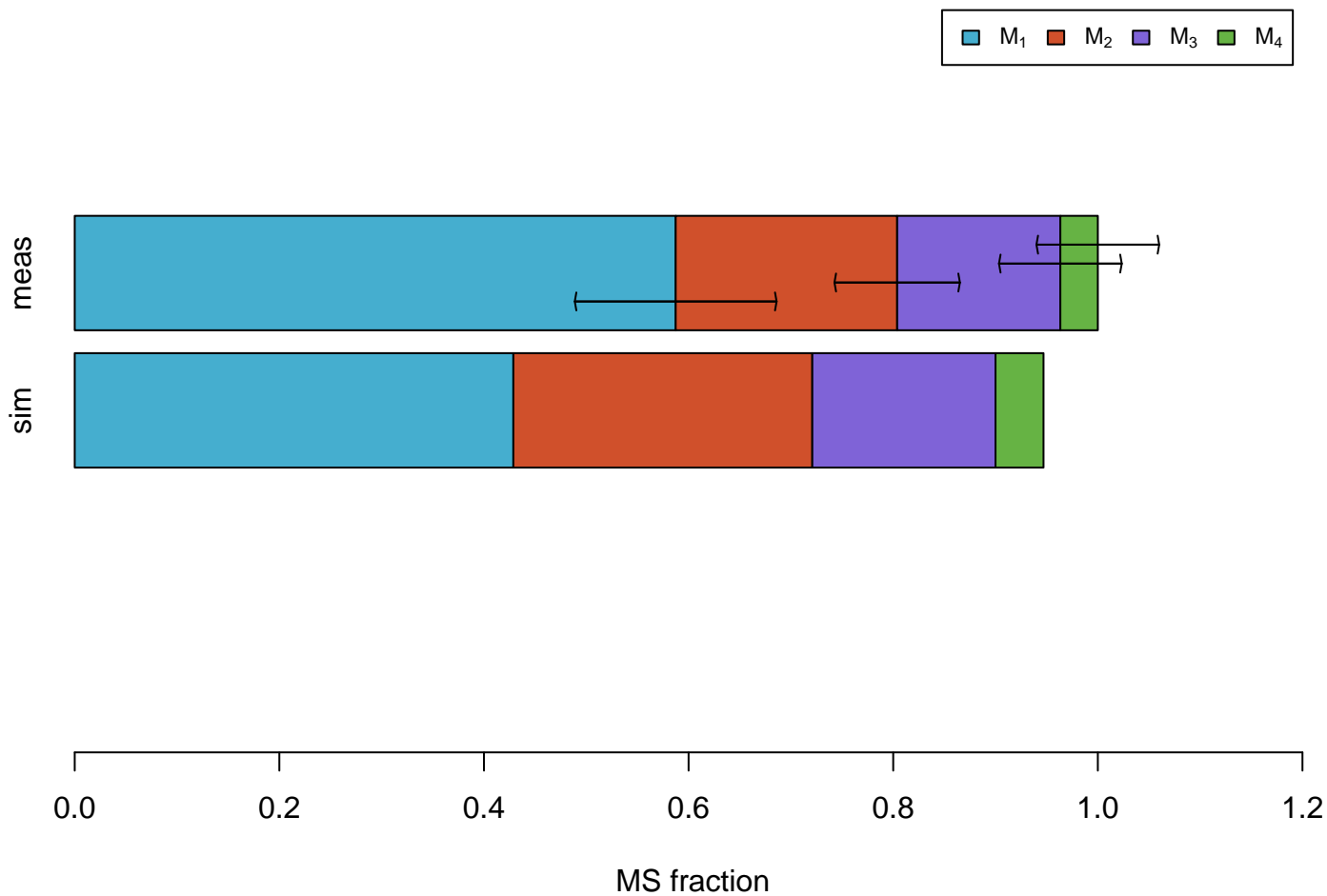


MS fraction

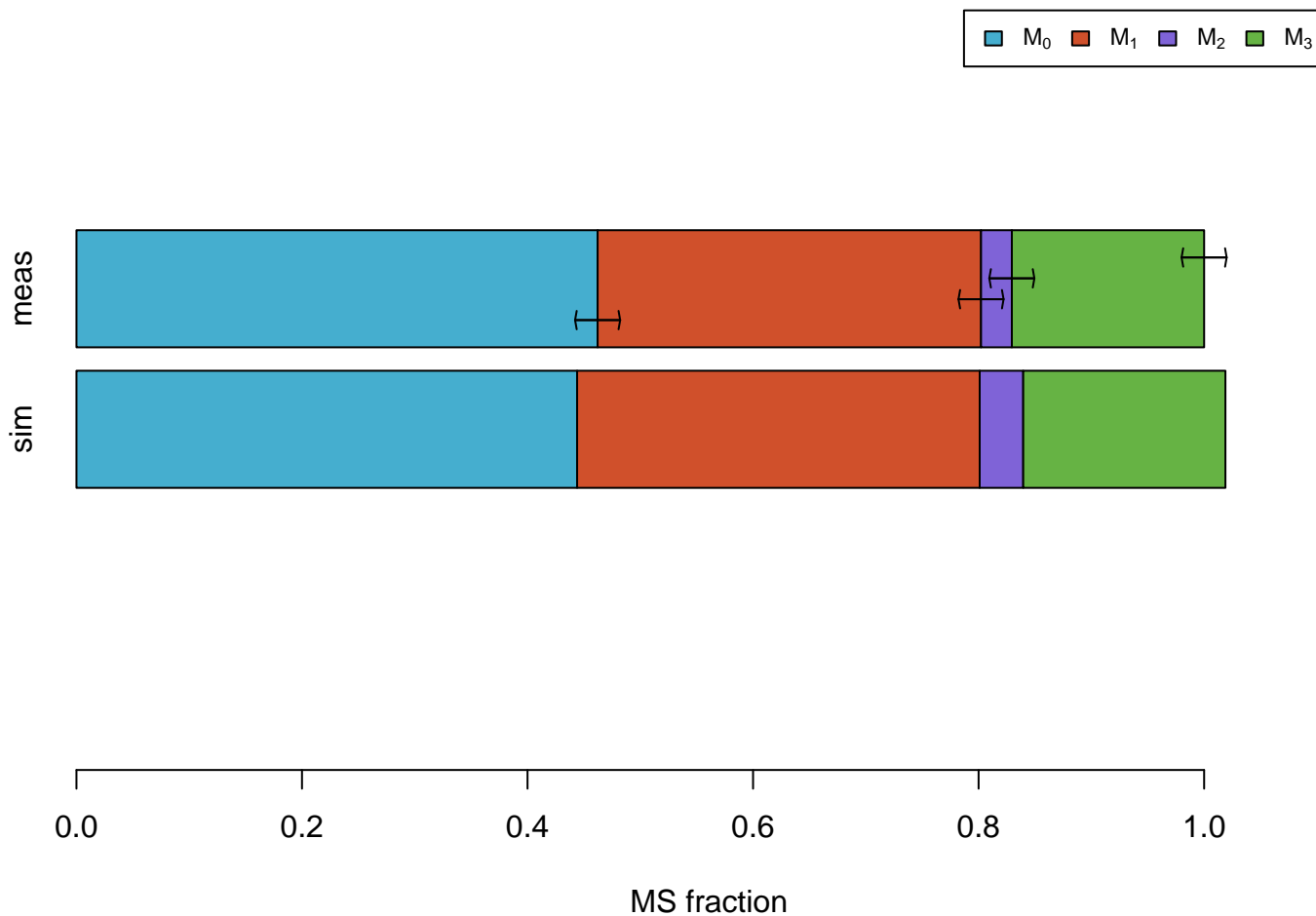
Gnt6P



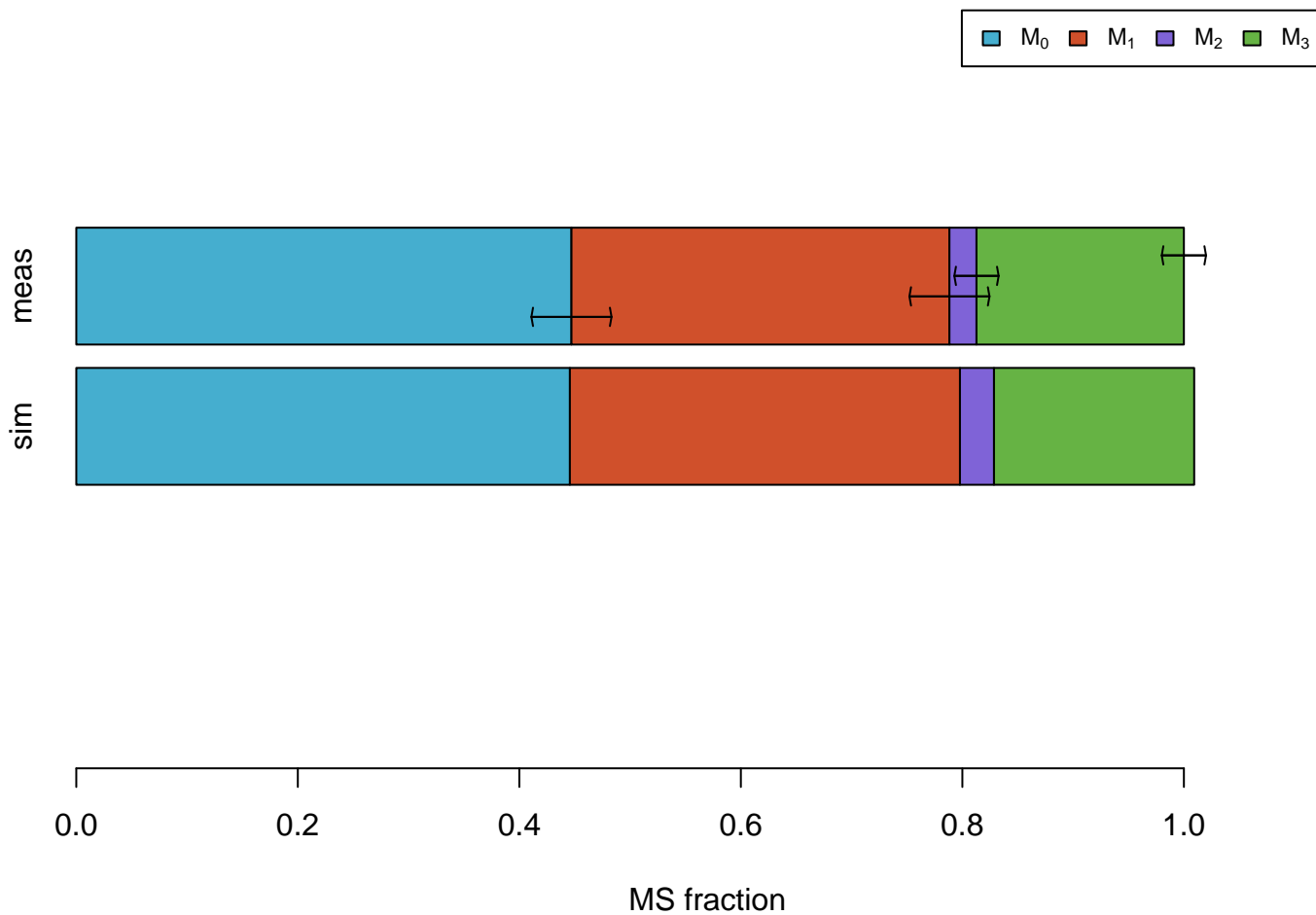
Mal



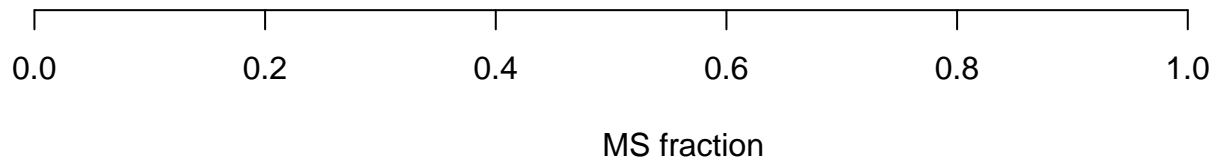
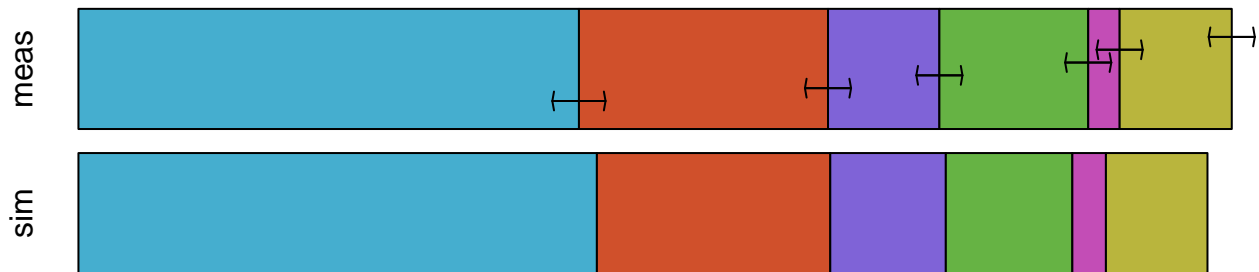
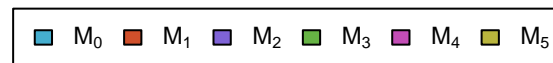
PEP



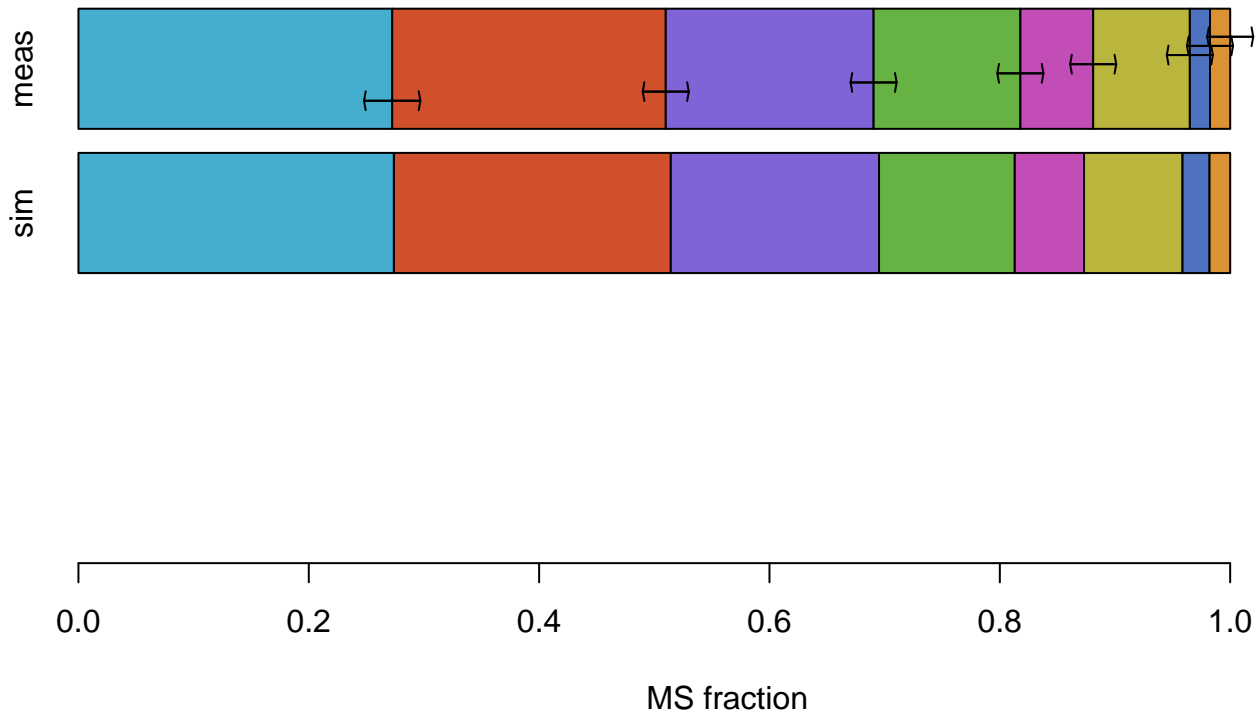
PGA



Rib5P+Xul5P+Rub5P



Sed7P



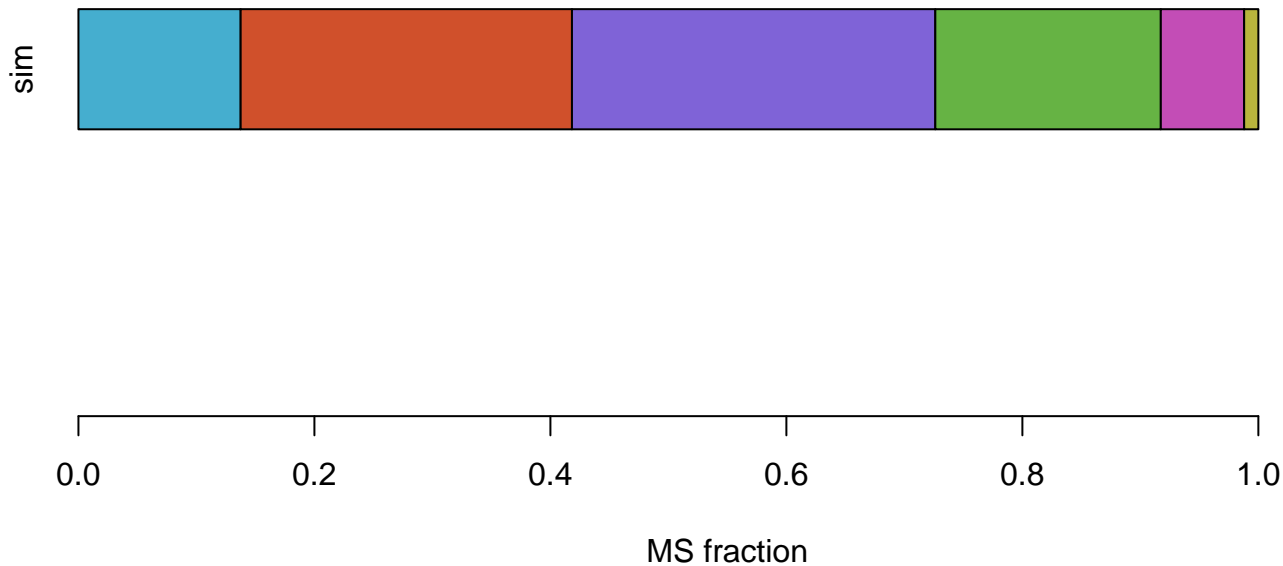
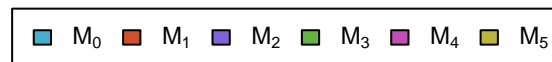
MS simulations

AcCoA

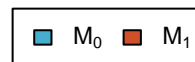


MS fraction

AKG



CO2



sim



MS fraction

E2



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

E3



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

Ery4P



MS fraction

GA3P

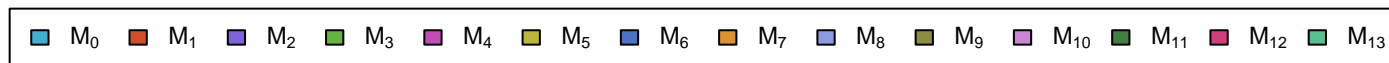


sim

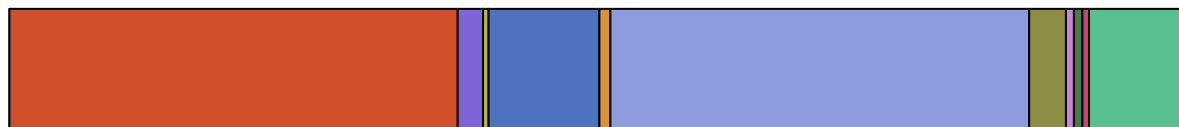


MS fraction

Glc



sim



0.0

0.5

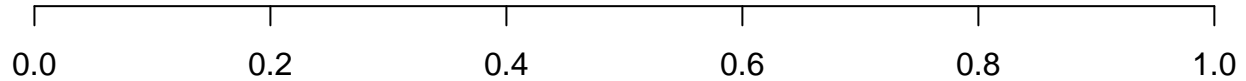
1.0

1.5

2.0

MS fraction

OAA



MS fraction

Pyr

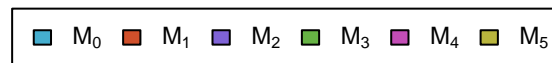


sim



MS fraction

Rib5P



sim



0.0

0.2

0.4

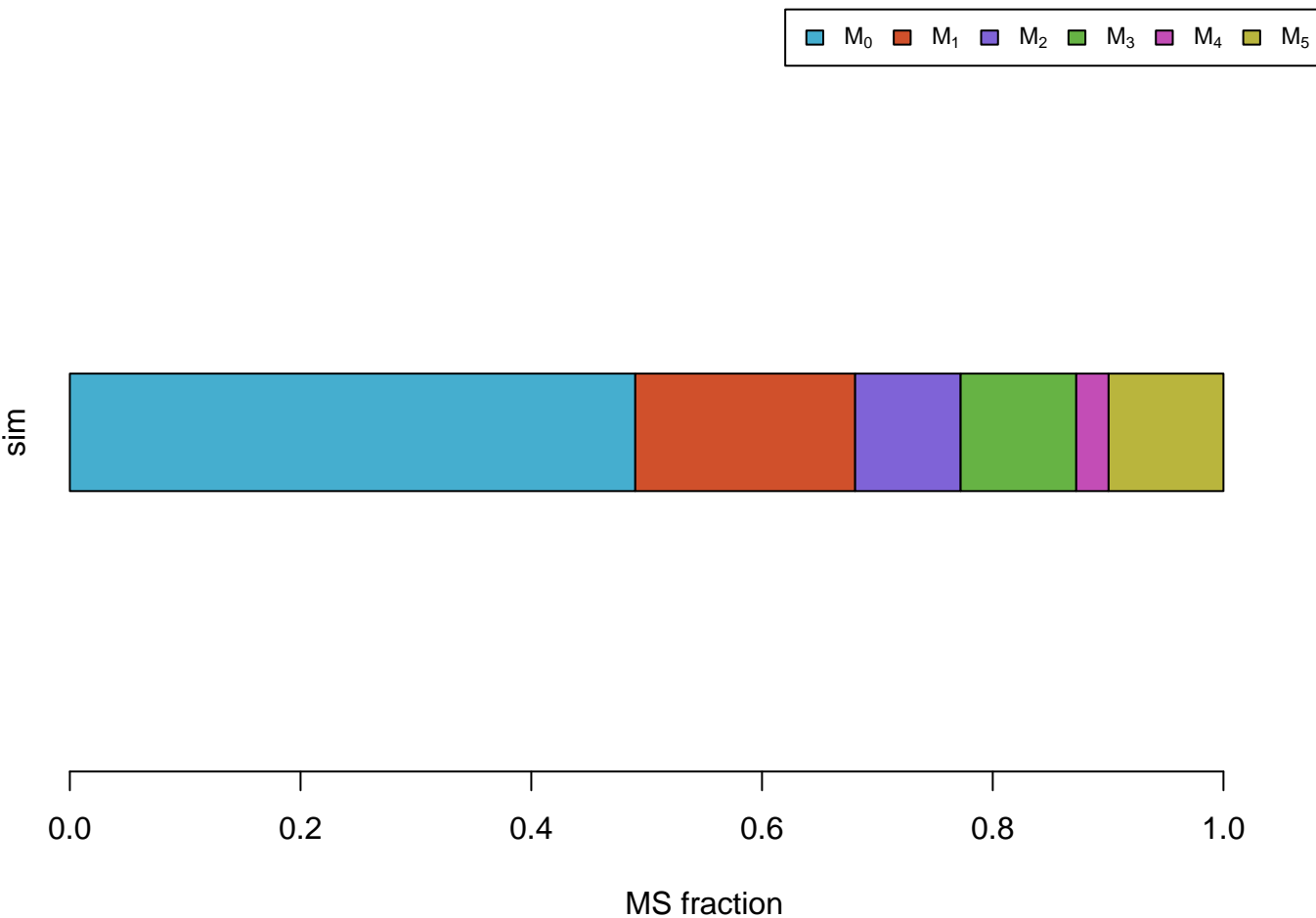
0.6

0.8

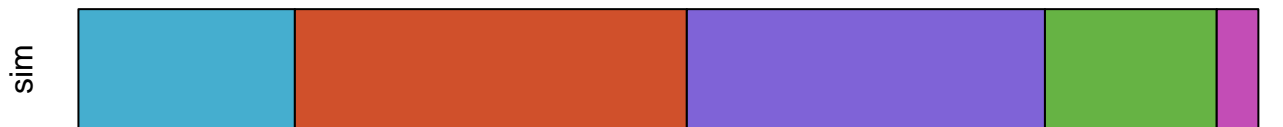
1.0

MS fraction

Rub5P

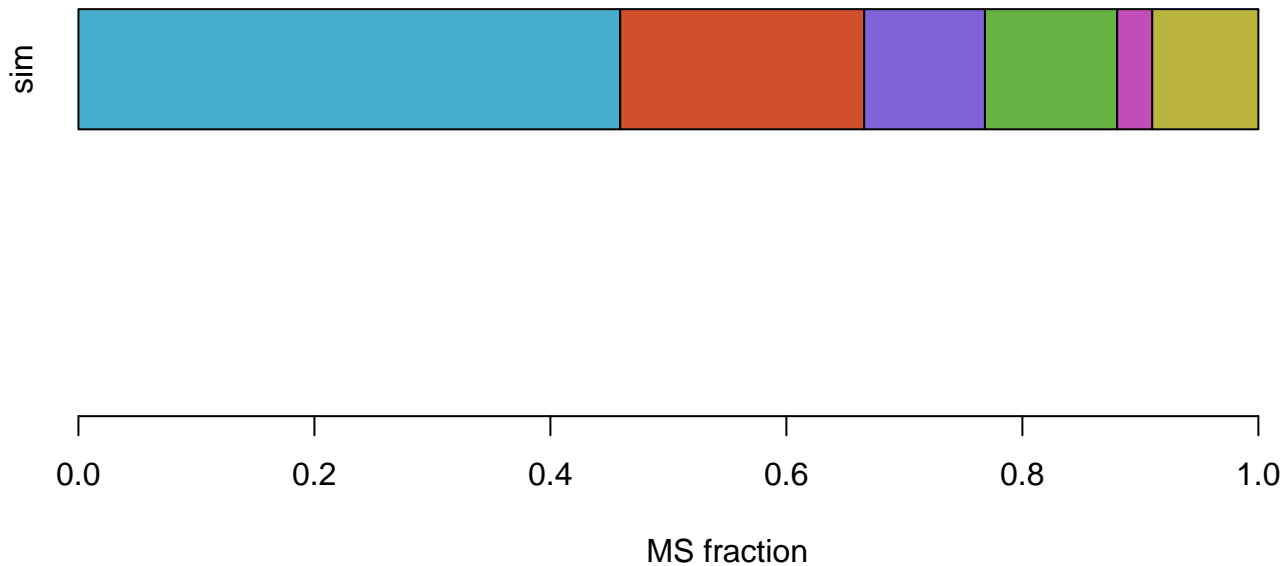
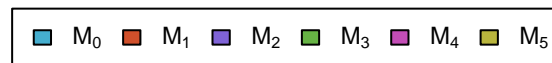


Suc



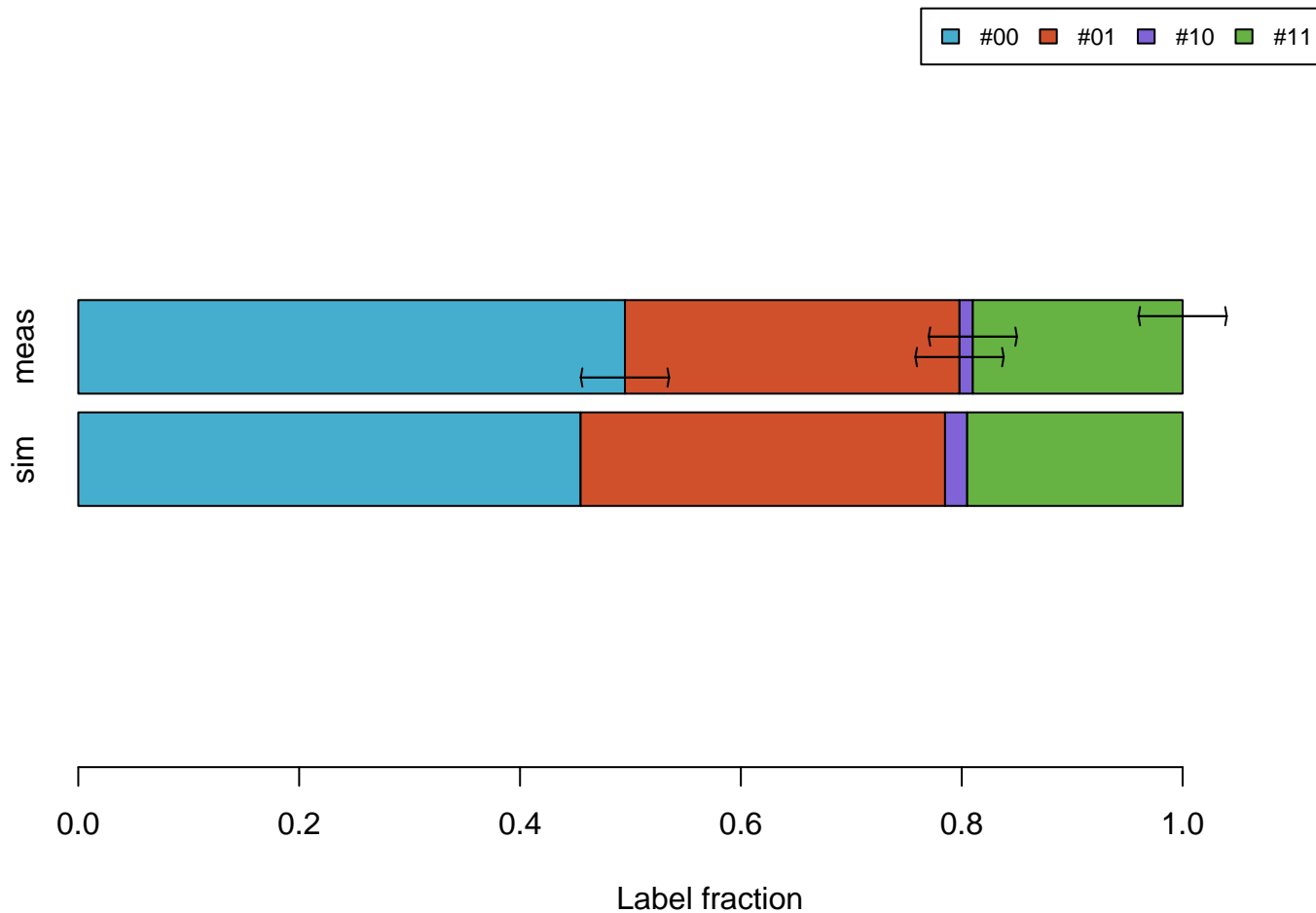
MS fraction

XuI5P



Label measurements
(error bars= $\pm 2 \cdot \text{dev}$)

AcCoA

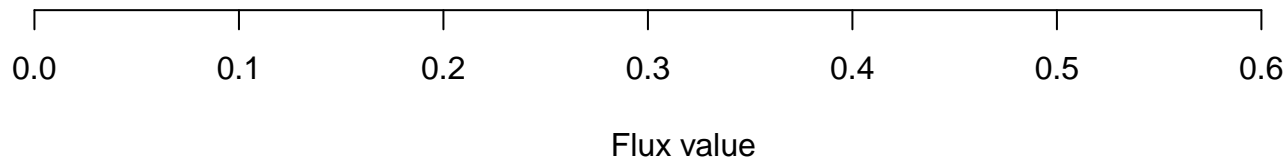


Flux measurements
(error bars= $\pm 2 \cdot \text{dev}$)

out_Ac

meas

sim

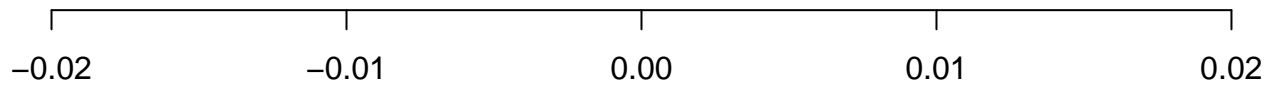


Metabolite pool measurements
(error bars= $\pm 2 \cdot \text{dev}$)

Cit

meas

sim

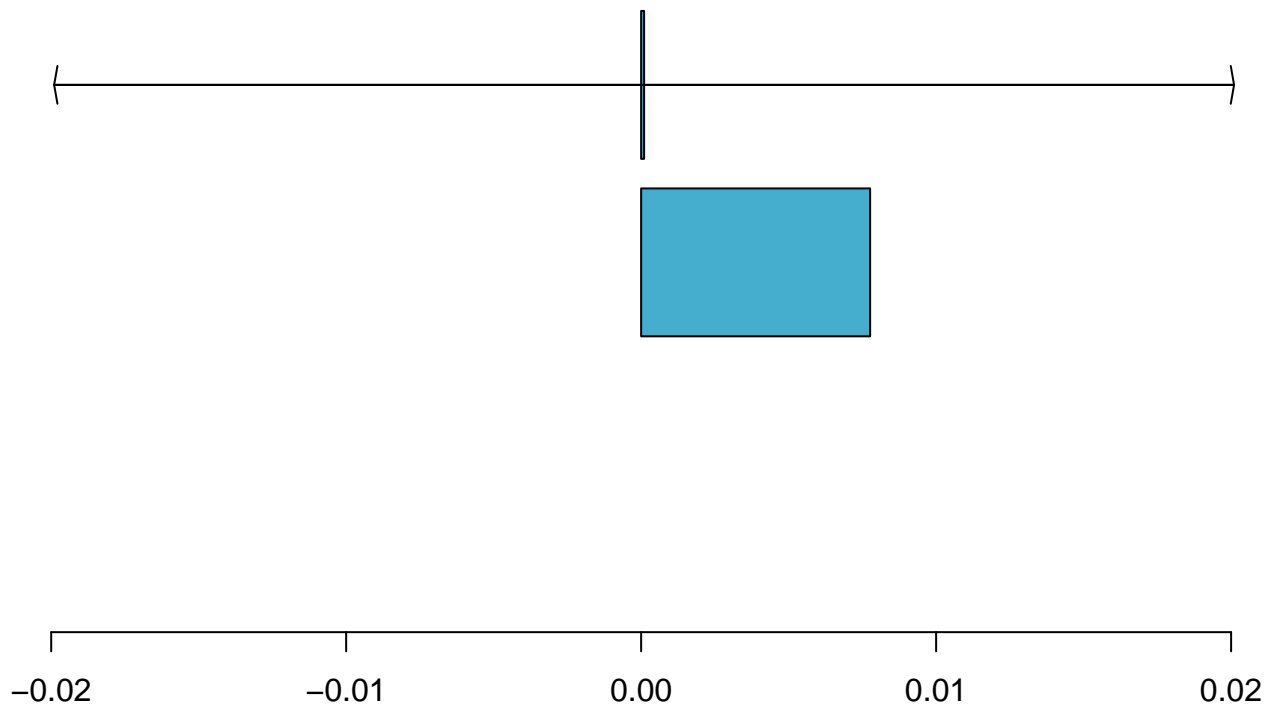


Metabolite concentration

Fru6P

meas

sim

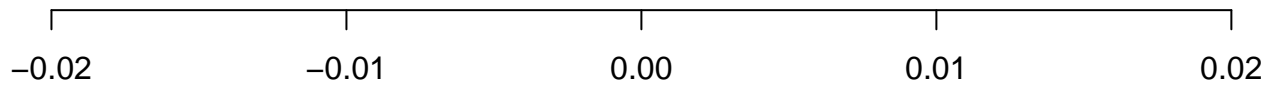


Metabolite concentration

FruBP

meas

sim

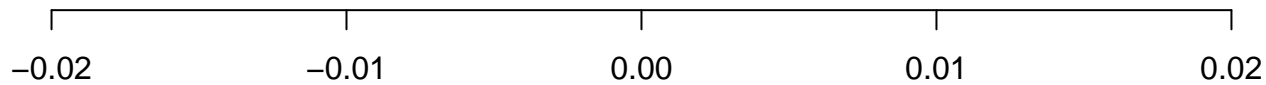


Metabolite concentration

Glc6P

meas

sim

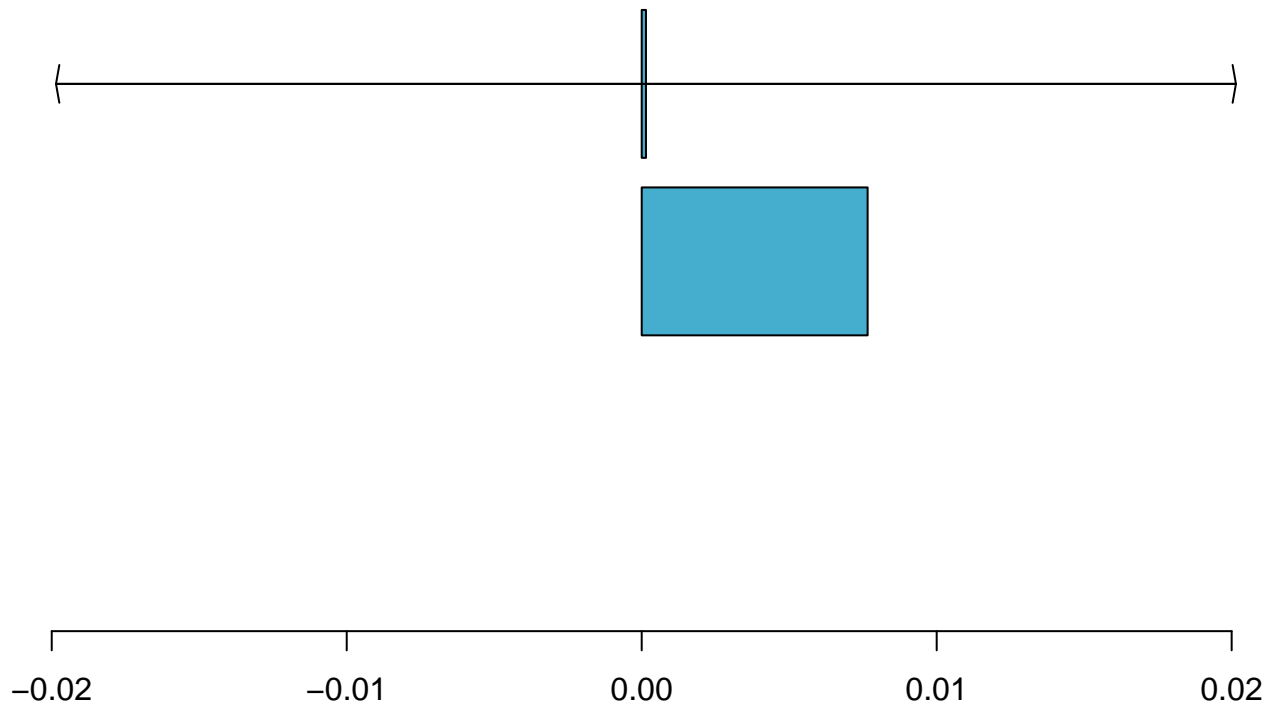


Metabolite concentration

Gnt6P

meas

sim

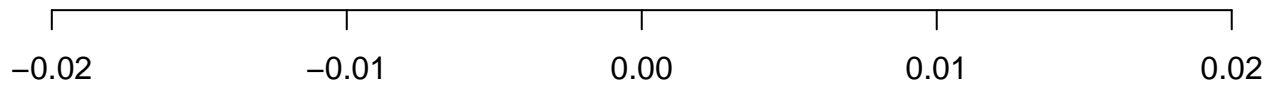


Metabolite concentration

Mal

meas

sim

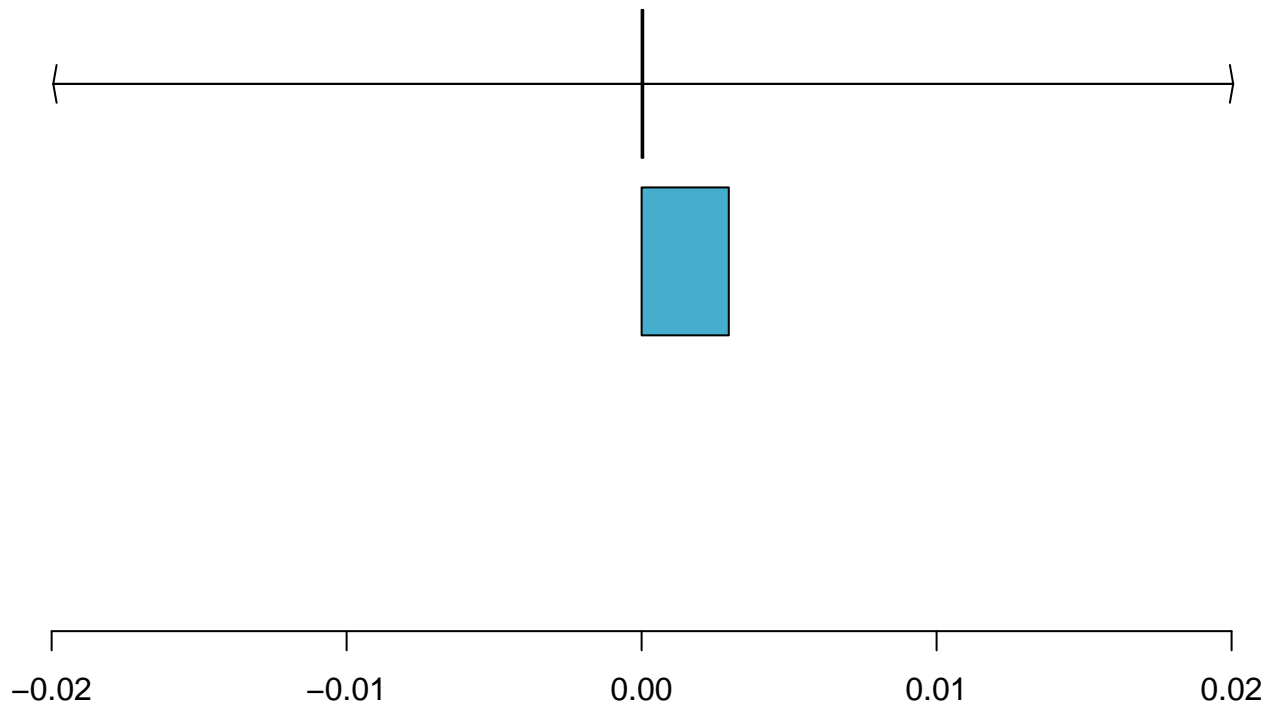


Metabolite concentration

PEP

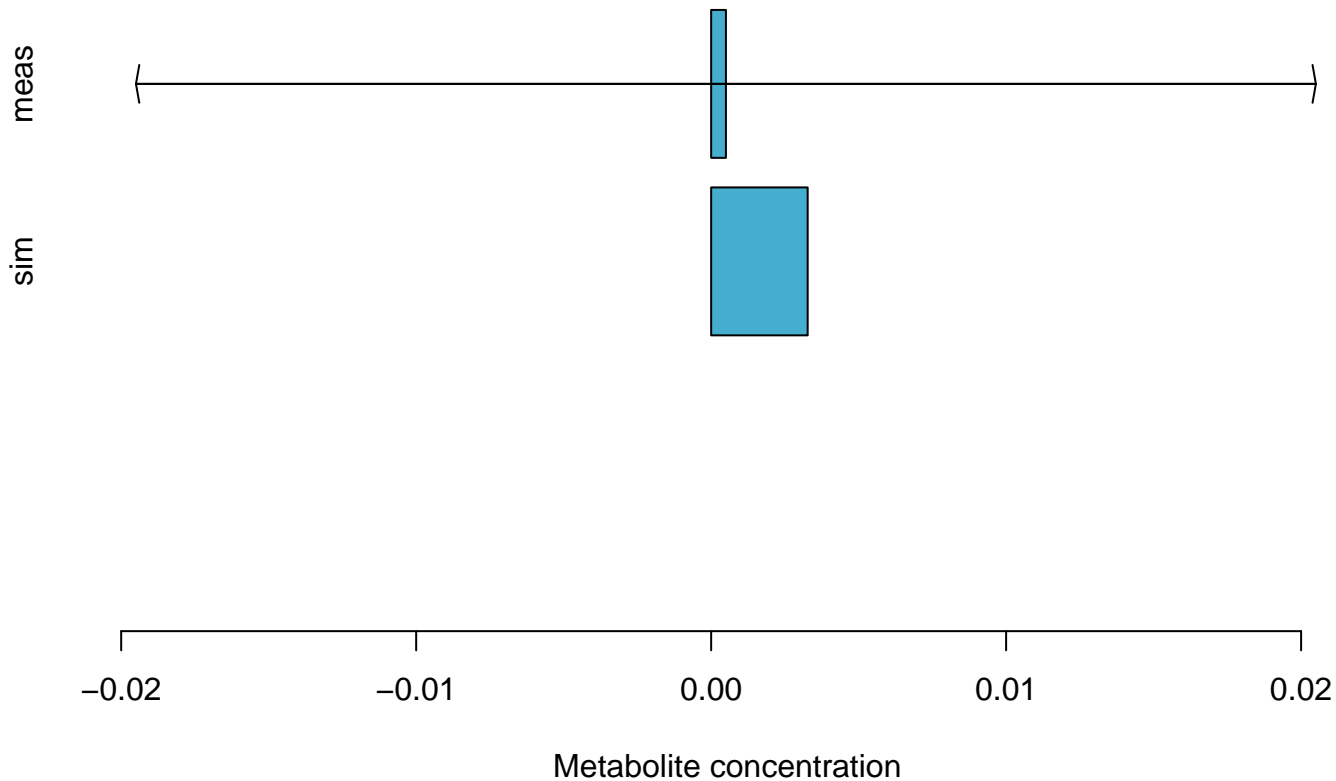
meas

sim

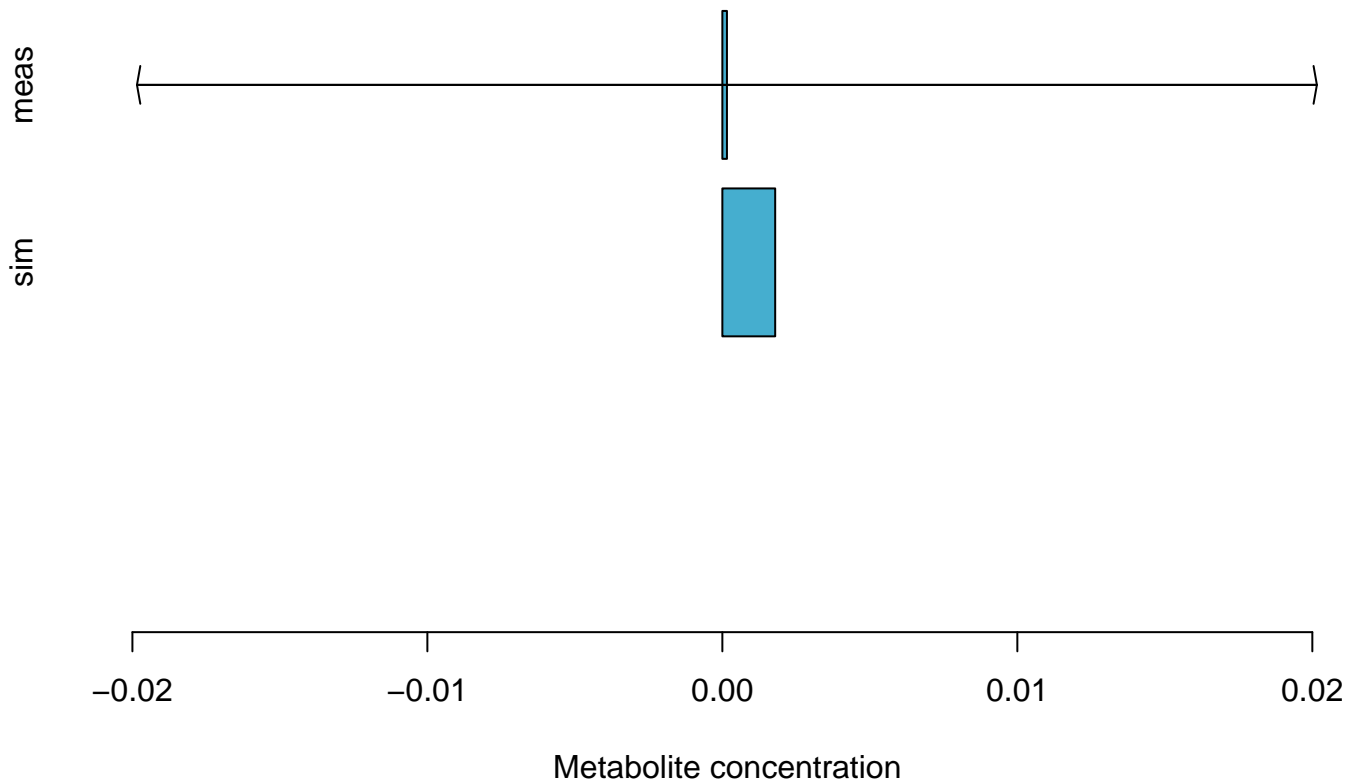


Metabolite concentration

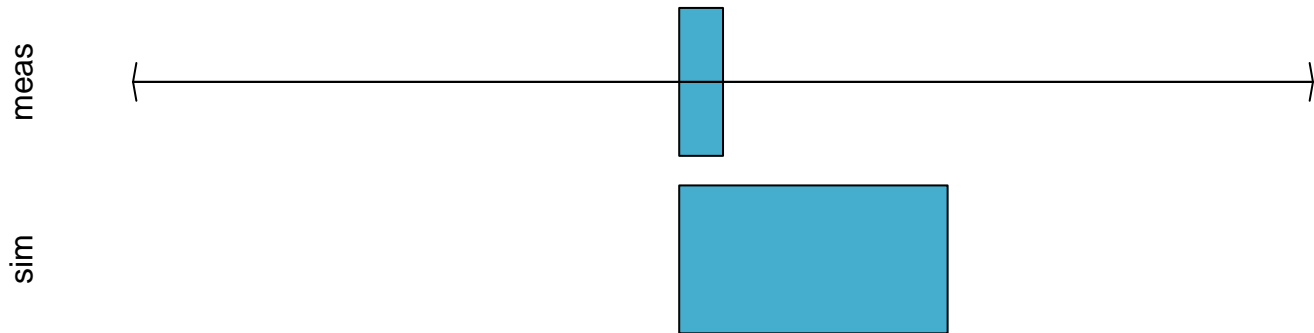
PGA



Rub5P+Rib5P+Xul5P



Suc



-0.02 -0.01 0.00 0.01 0.02

Metabolite concentration