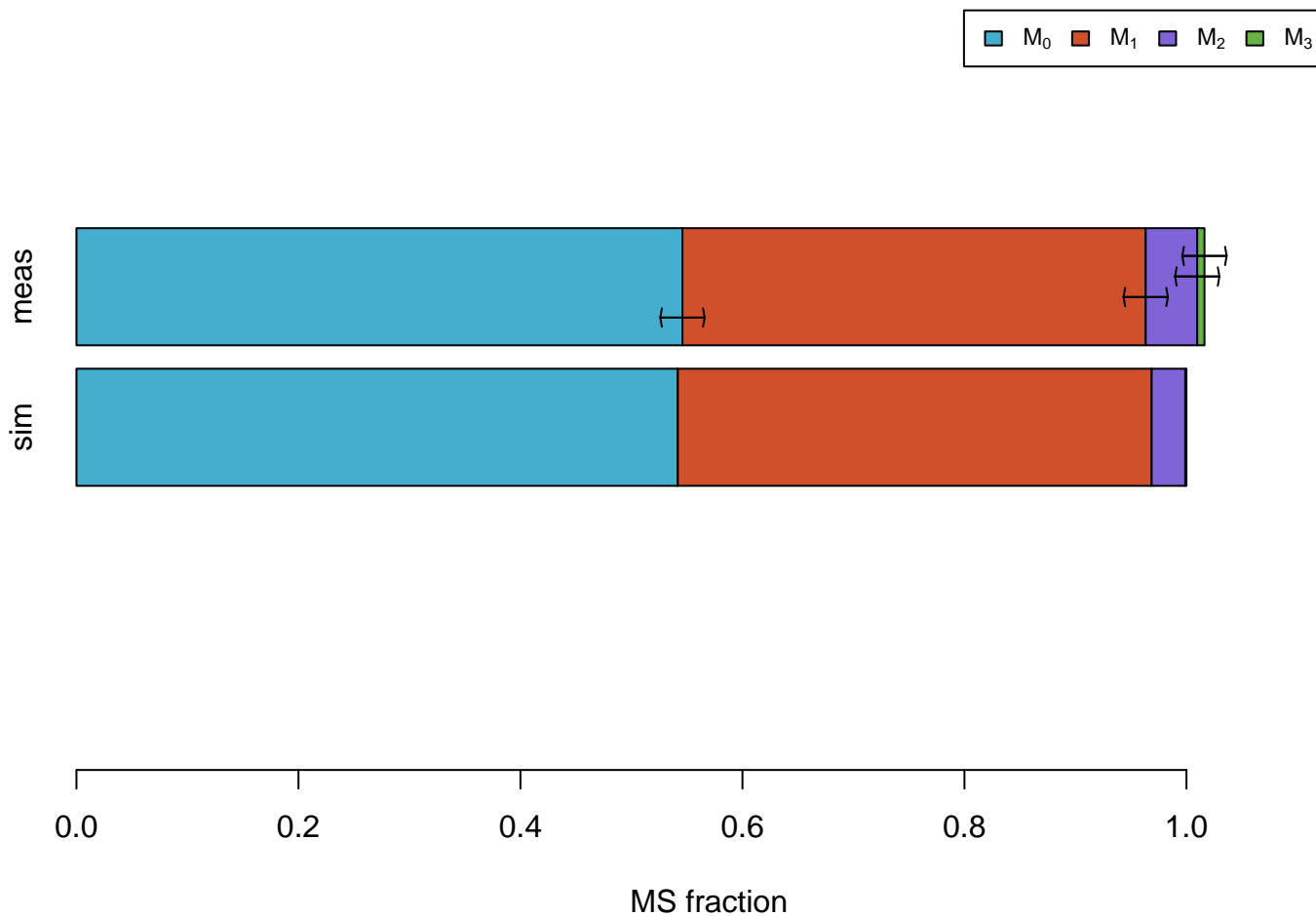
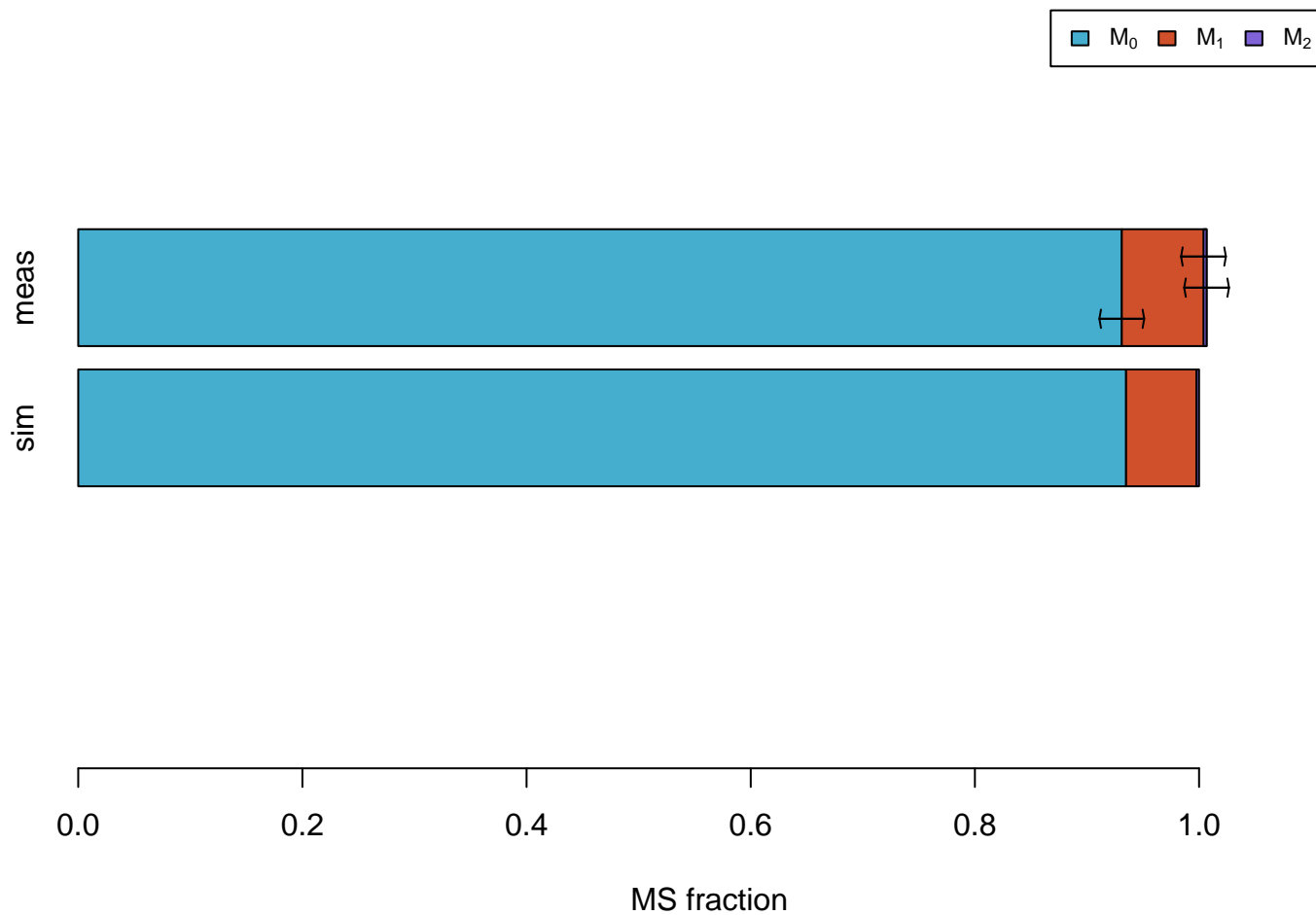


MS measurements
(error bars= $\pm 2 \cdot \text{dev}$)

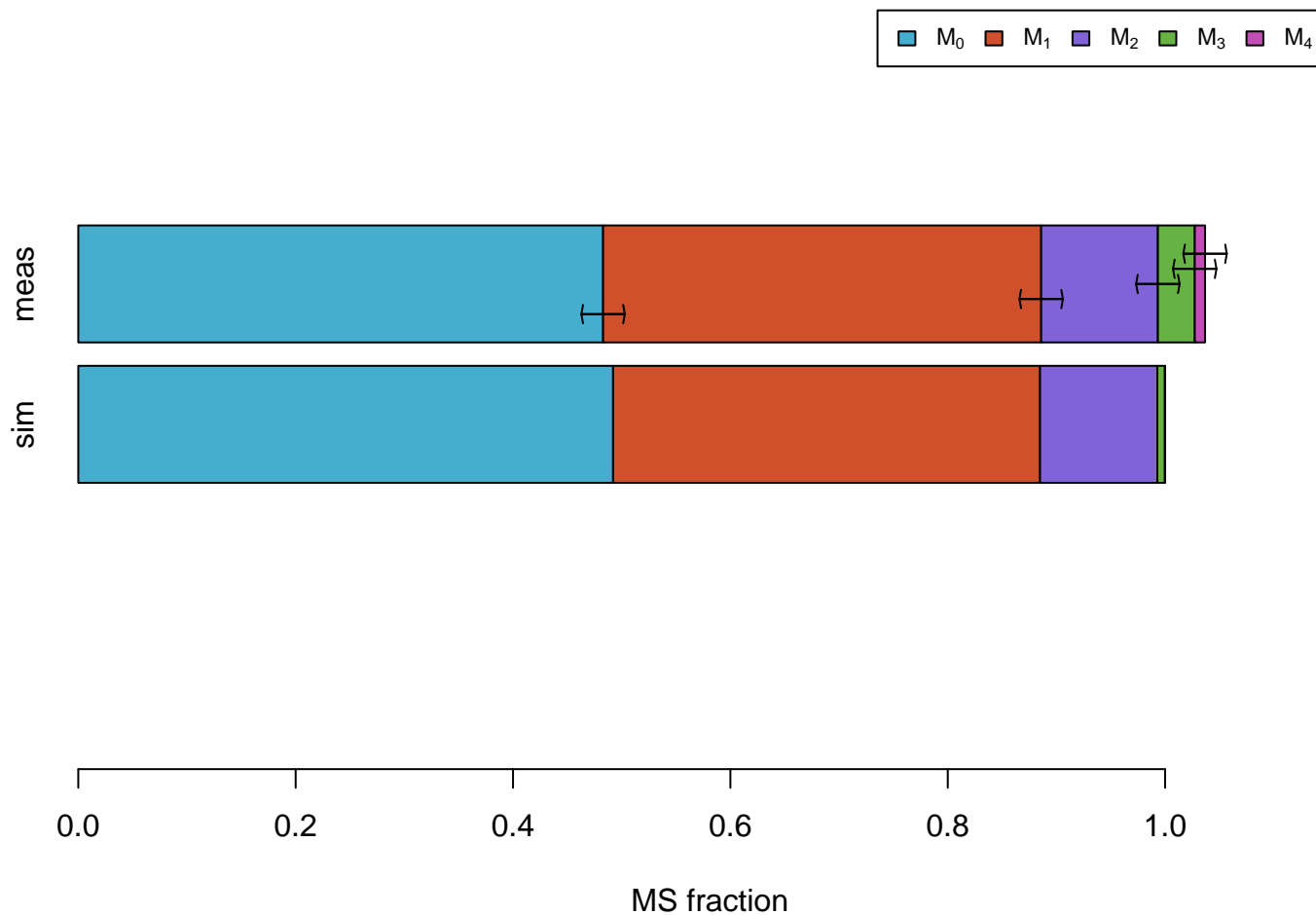
Ala



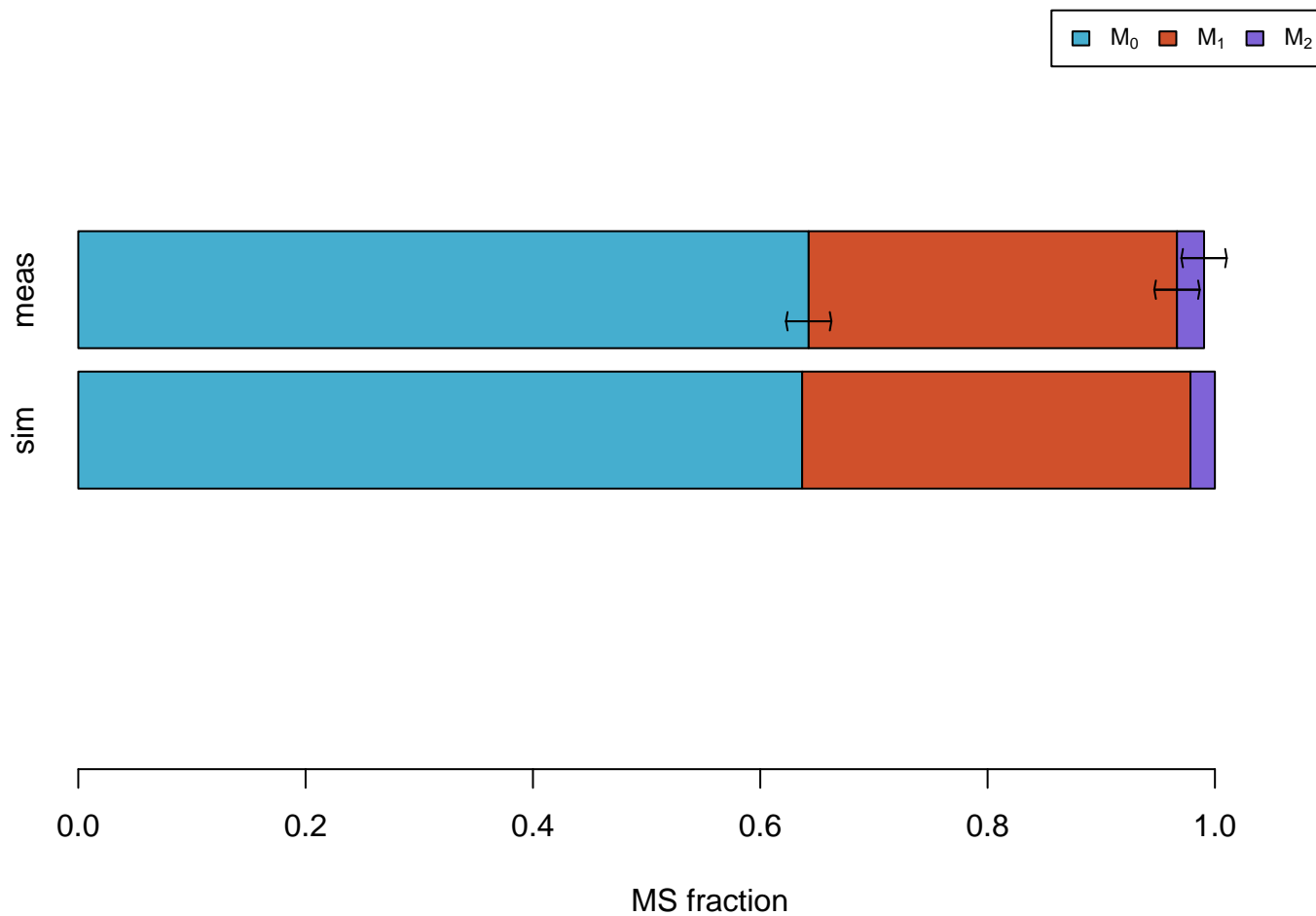
Ala #011



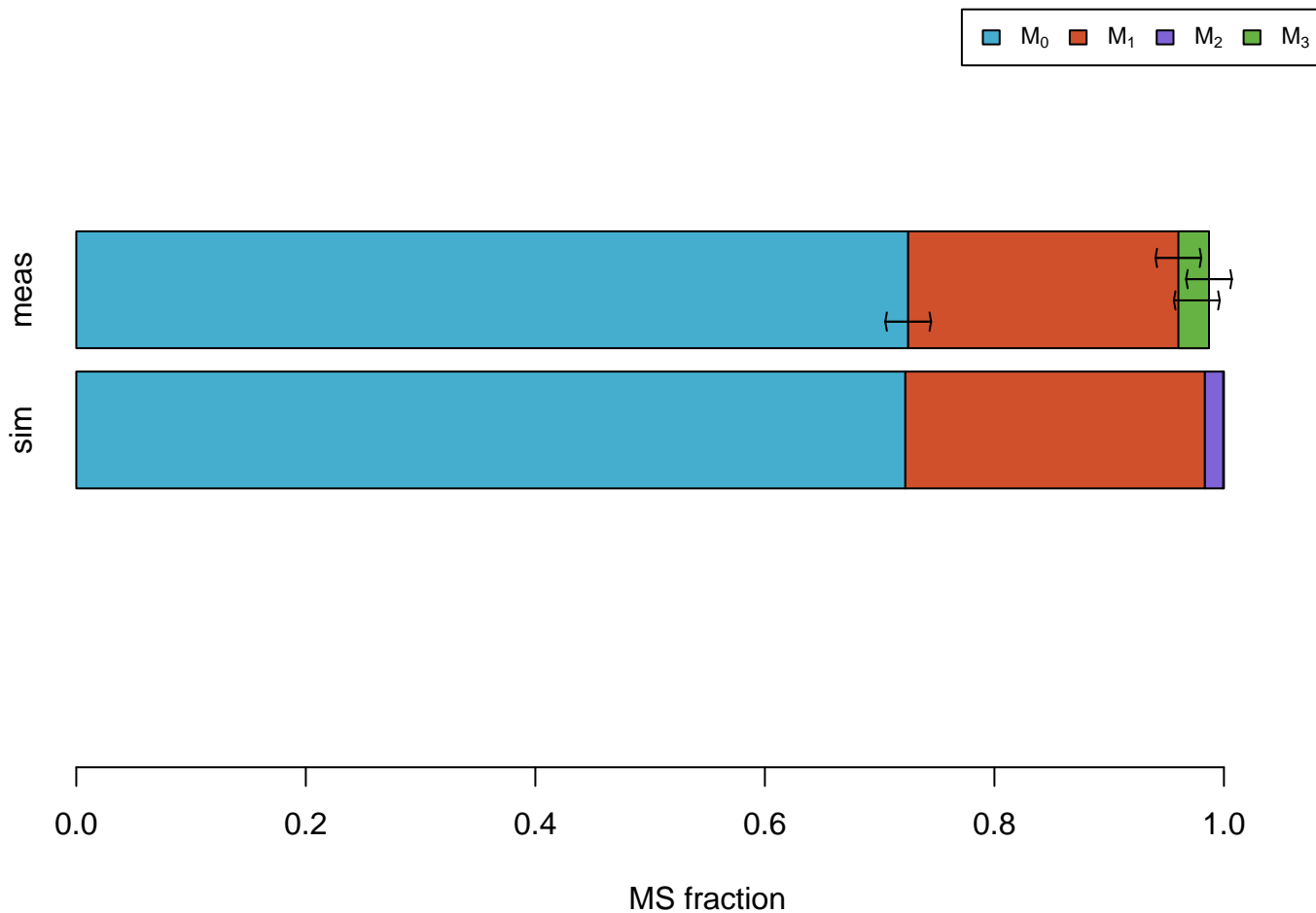
Asp



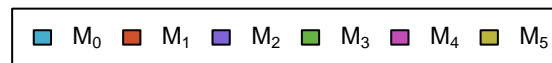
Asp #1100



Asp #0111

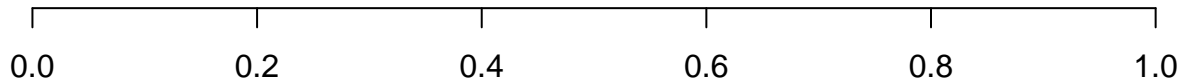


Glu



meas

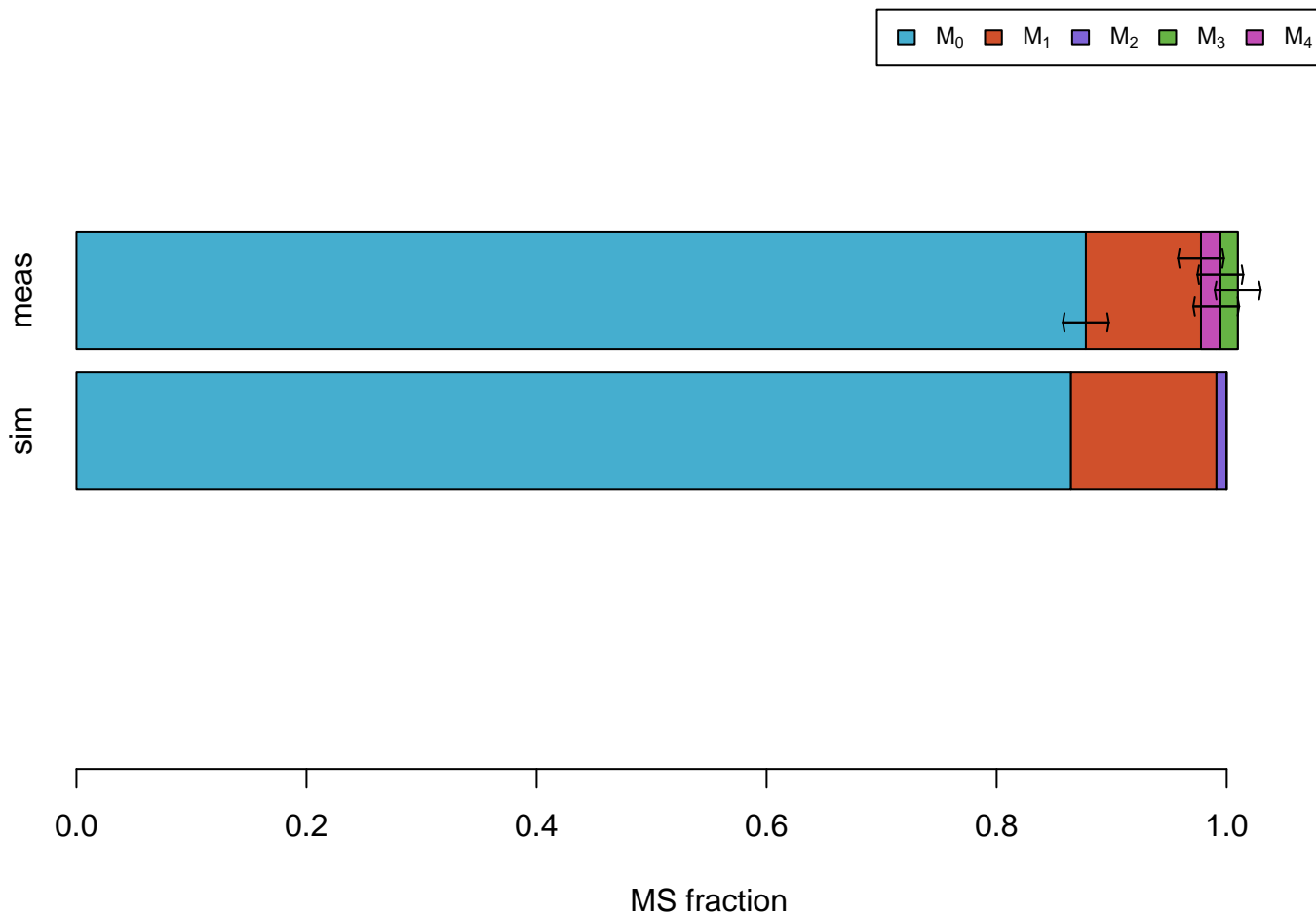
sim



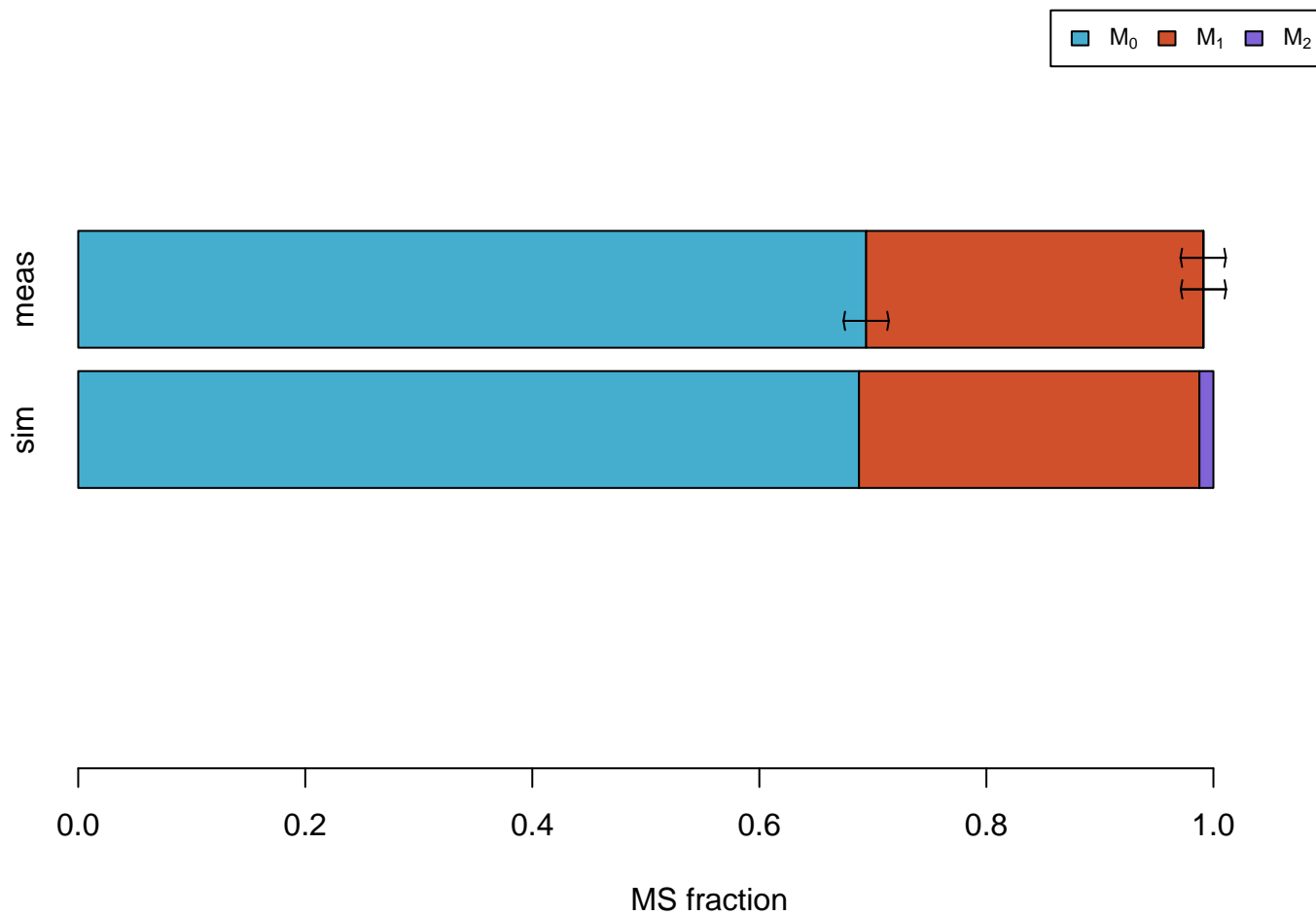
MS fraction



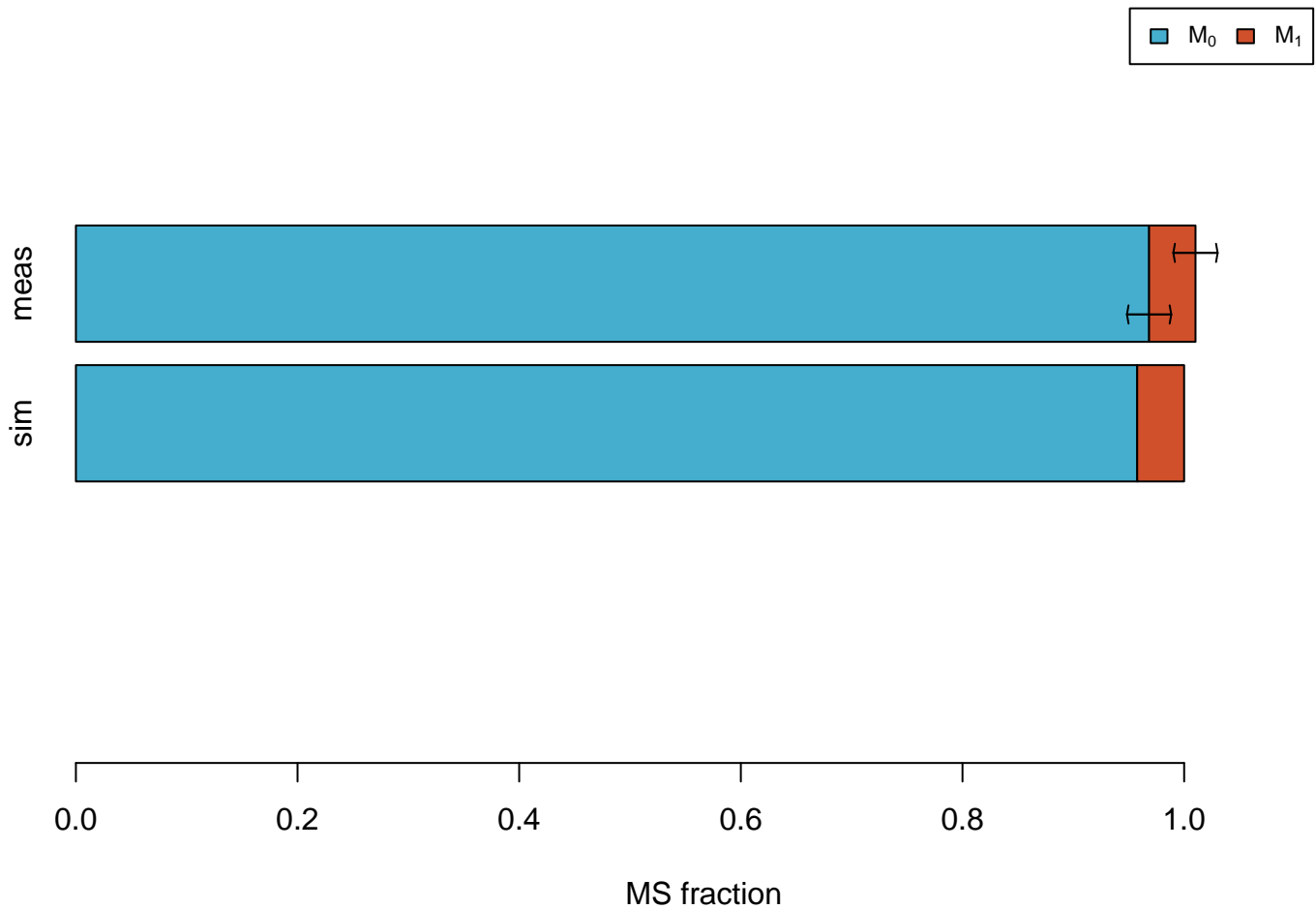
Glu #01111



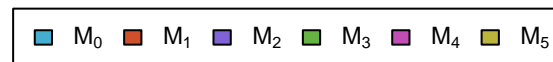
Gly



Gly #01

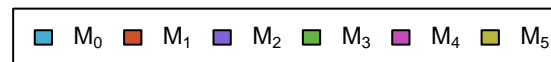


Ile #011111



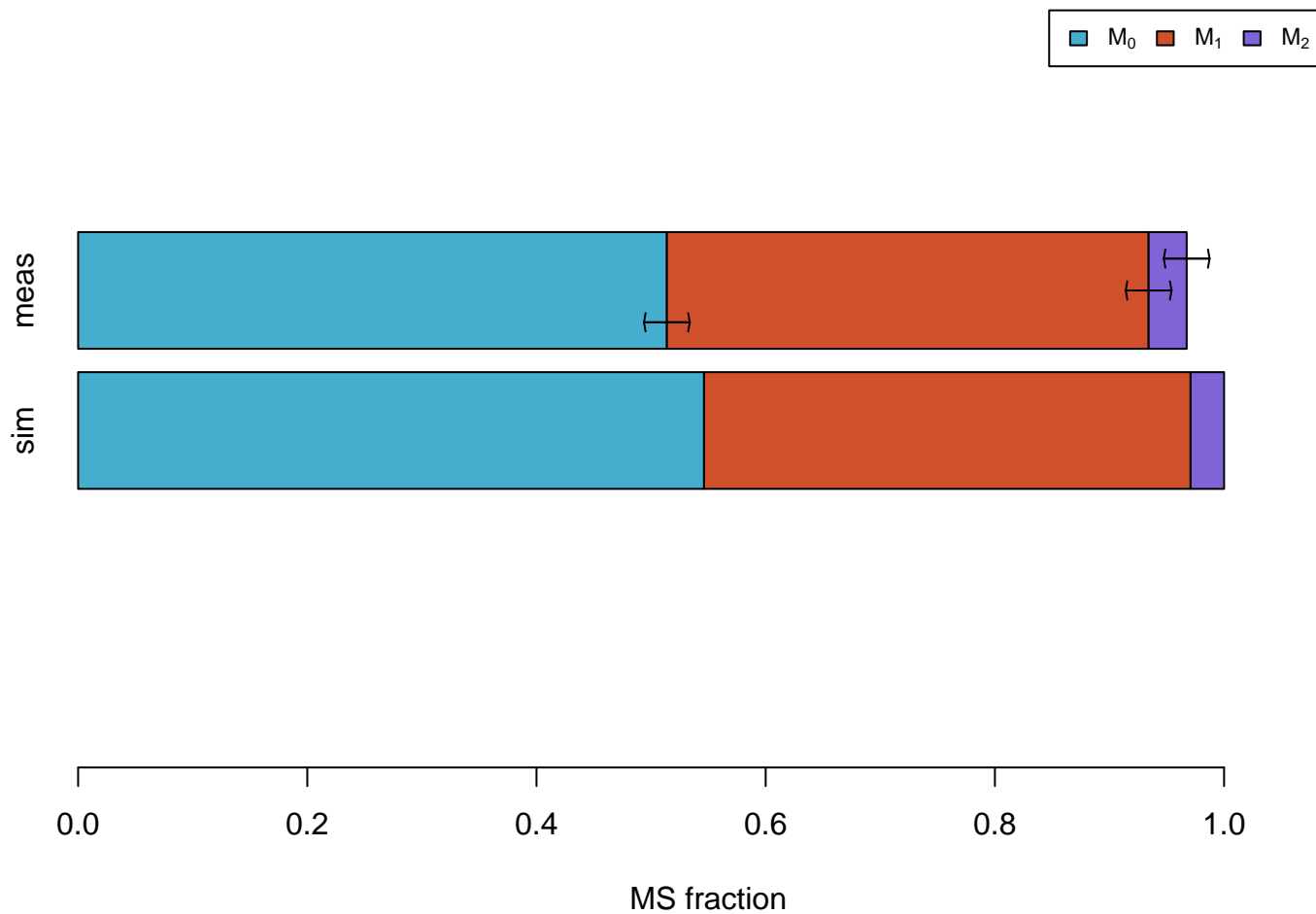
MS fraction

Leu #011111

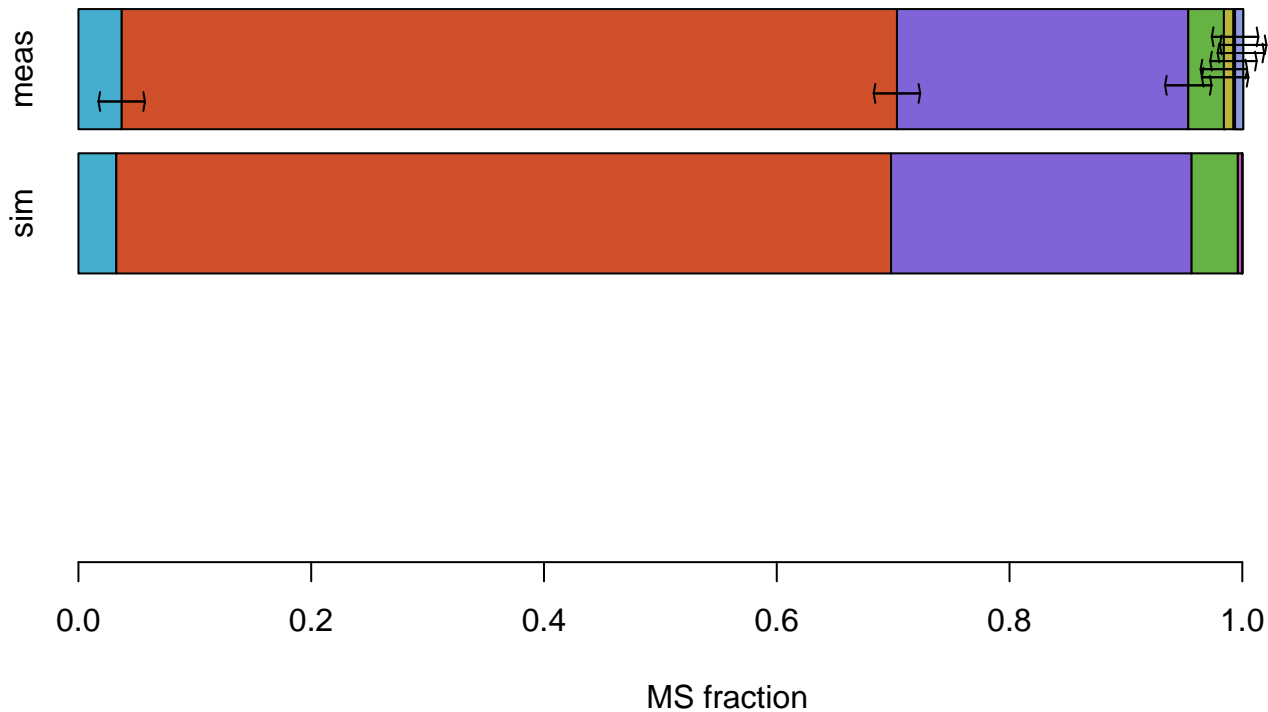


MS fraction

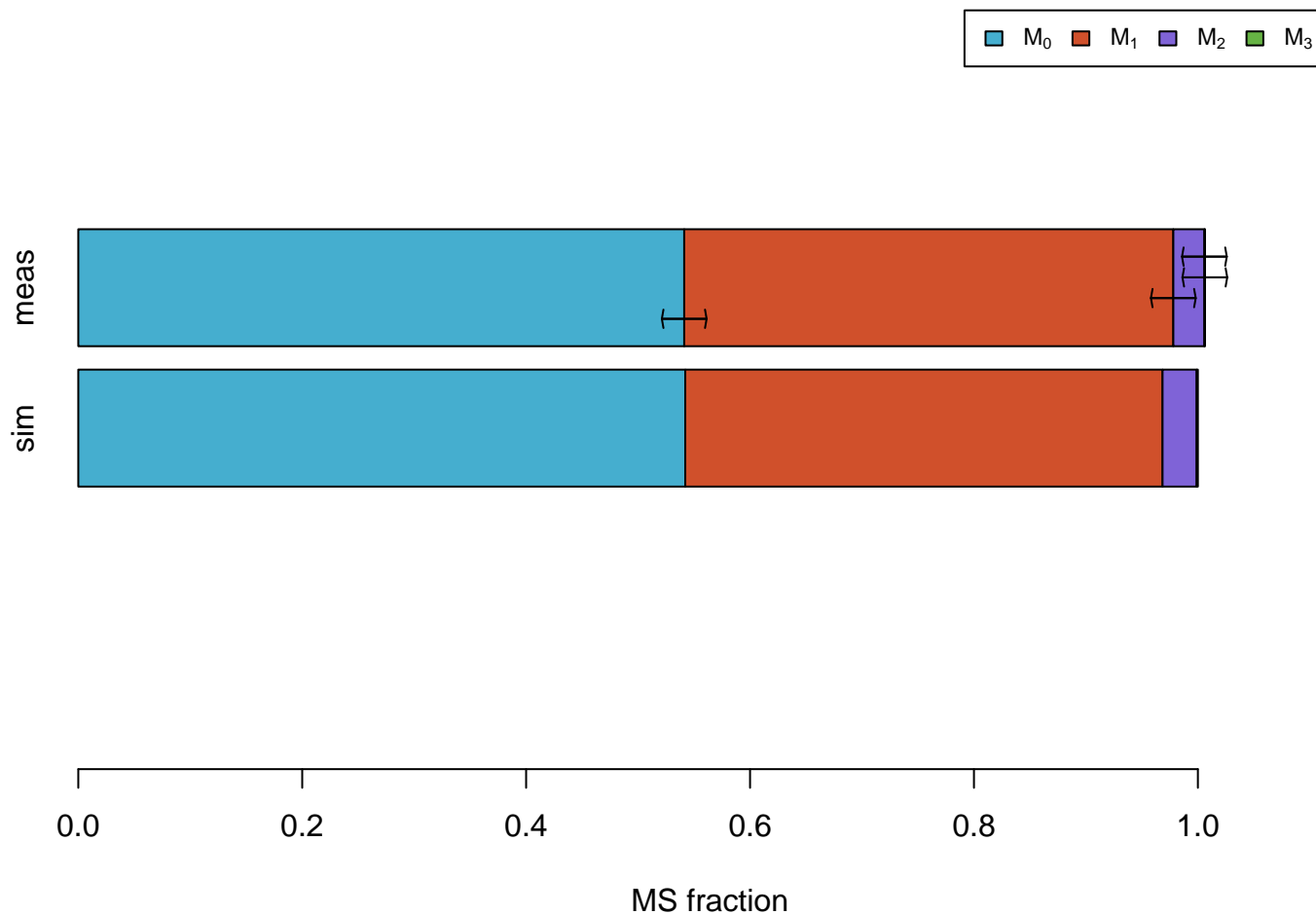
Phe #110000000



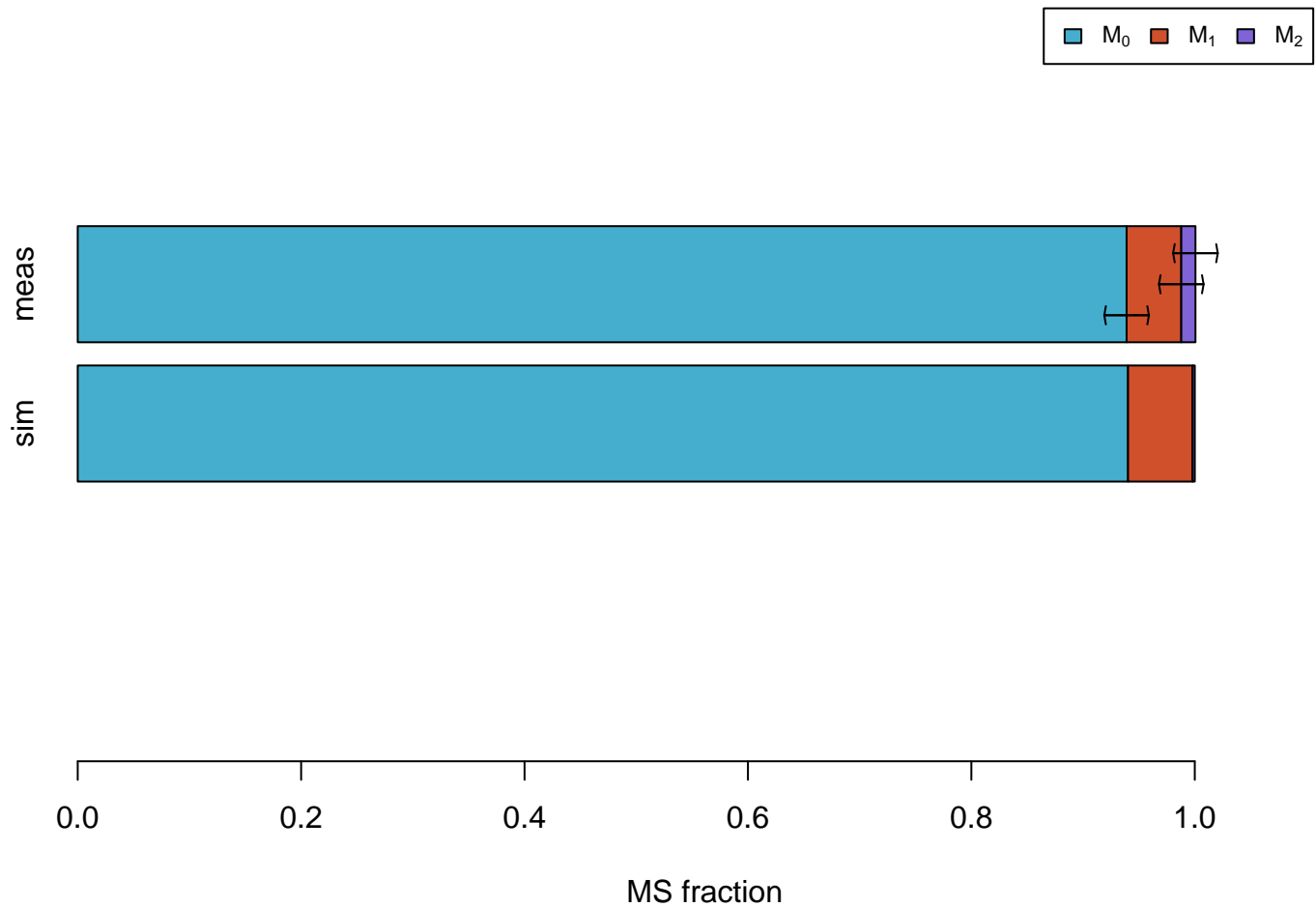
Phe #011111111



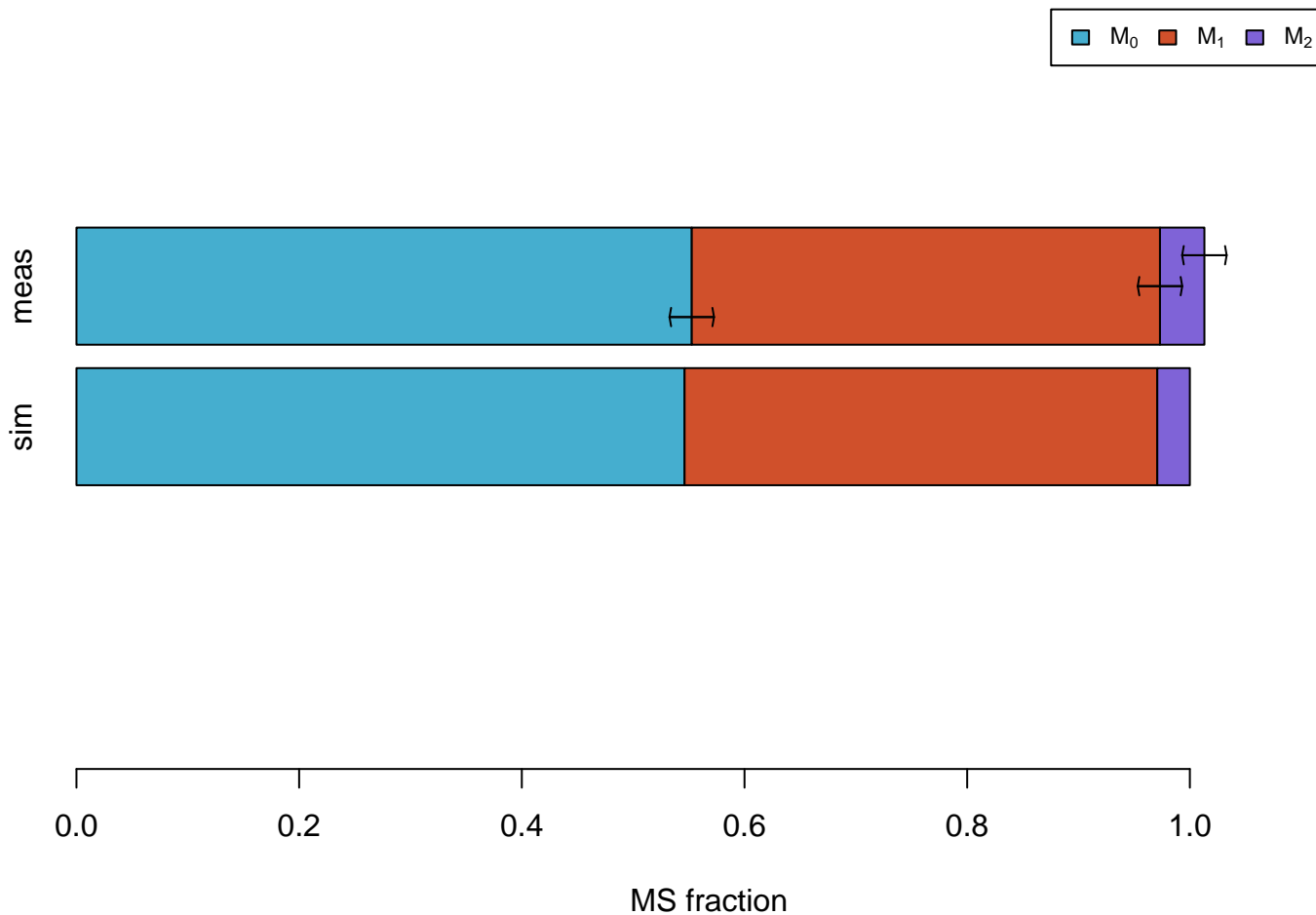
Ser



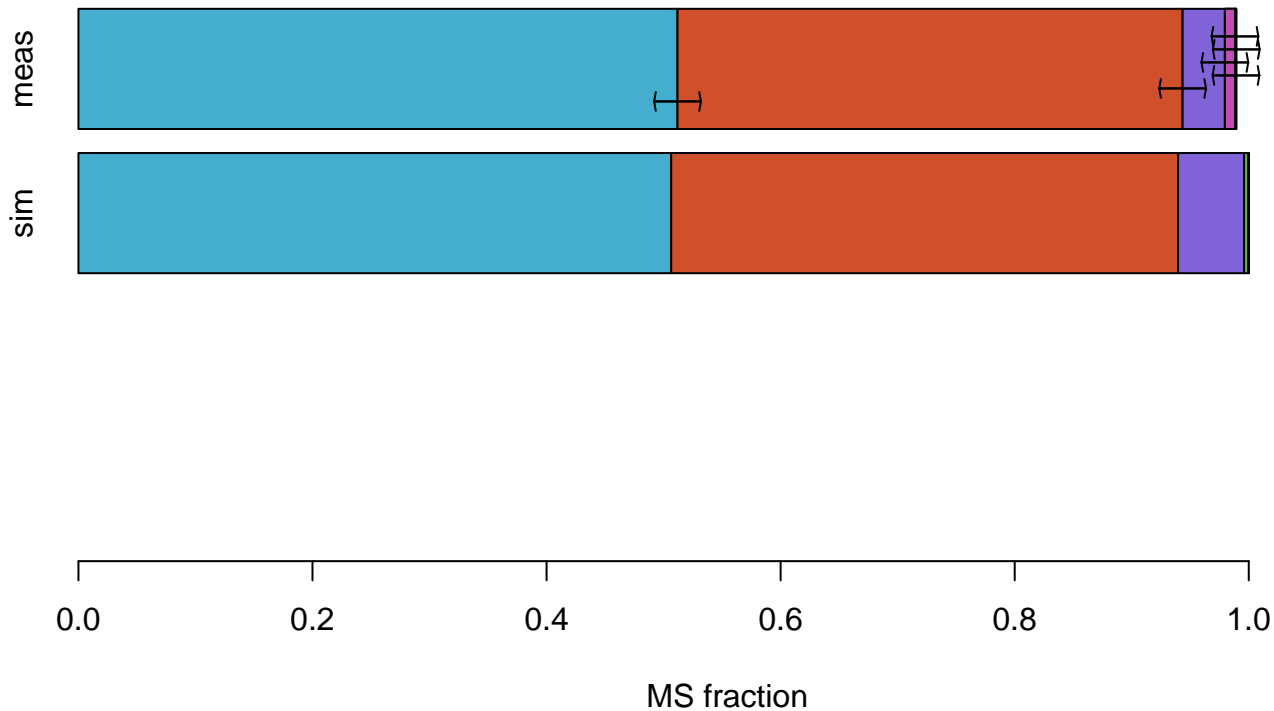
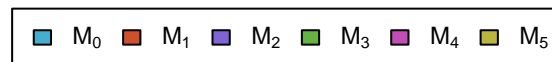
Ser #011



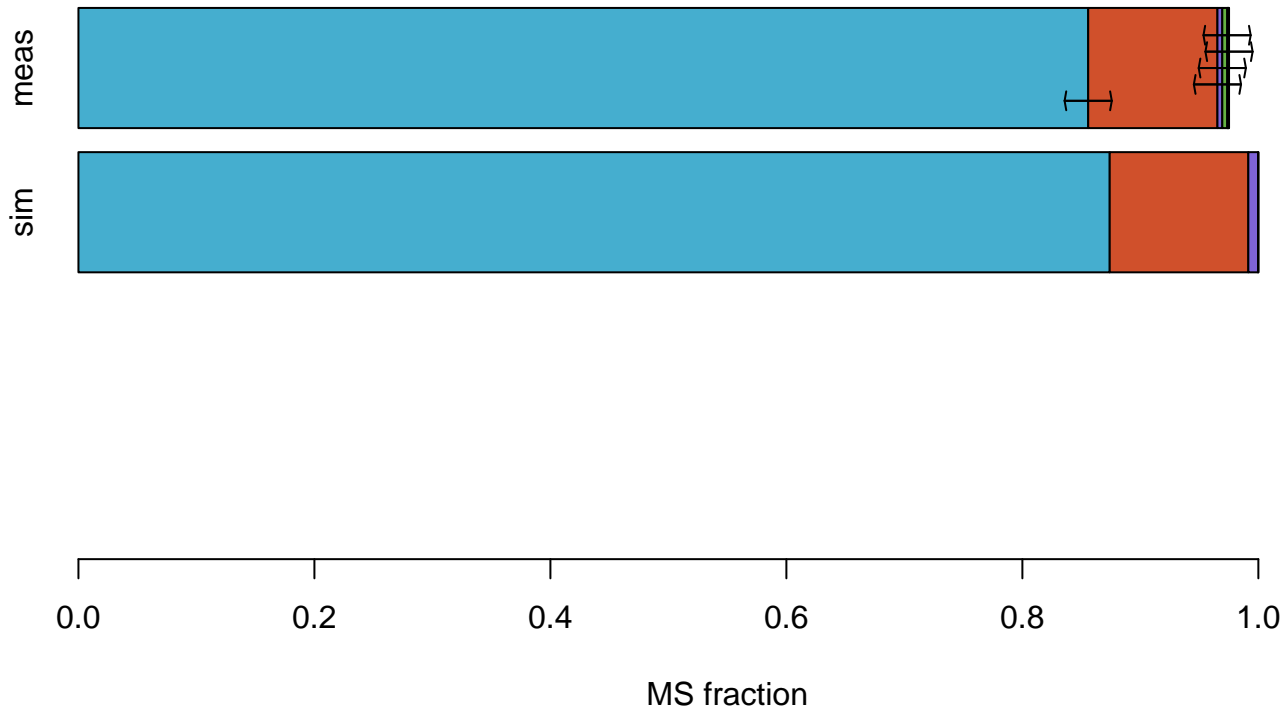
Tyr #110000000



Val



Val #01111

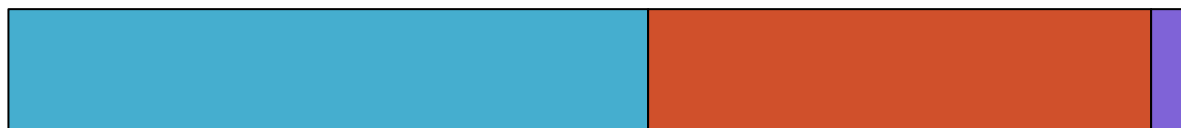


MS simulations

3PG



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

Ac



sim



MS fraction

AcCoA

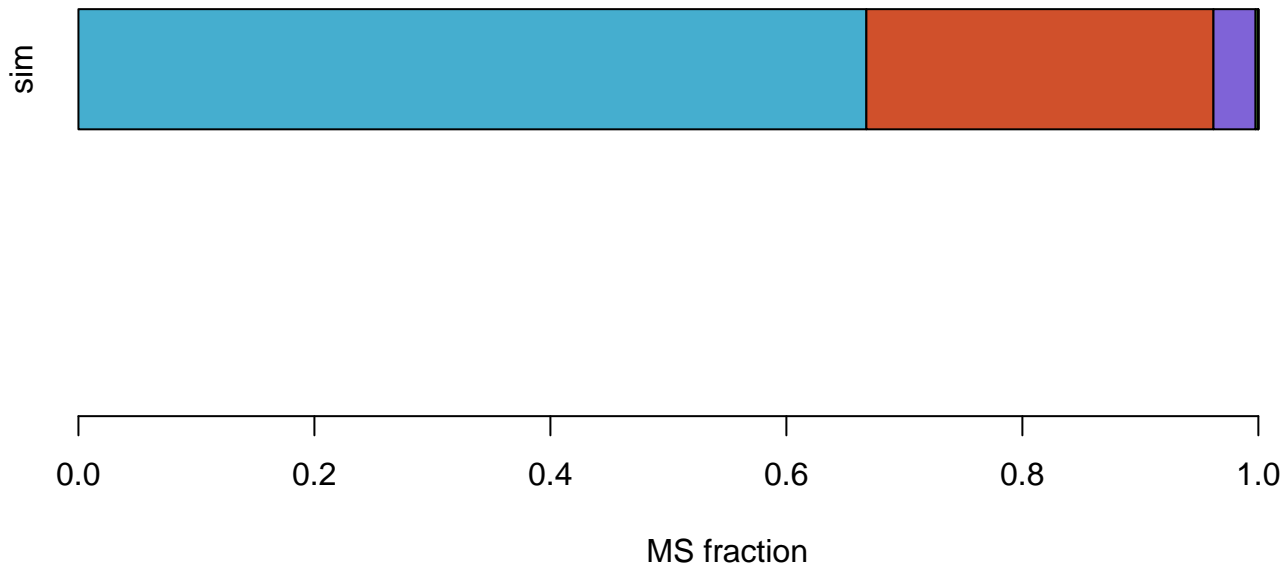


sim



MS fraction

AKG



Asn



sim



MS fraction

CO2



sim



0.0

0.2

0.4

0.6

0.8

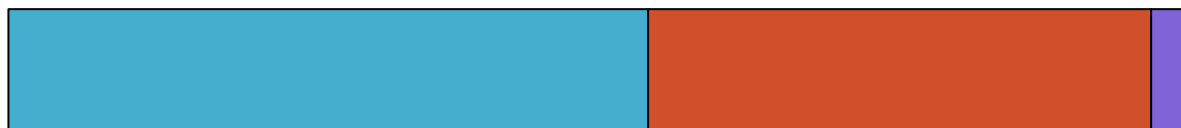
1.0

MS fraction

Cys



sim



MS fraction

DHAP



MS fraction

E4P



MS fraction

FTHF



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

Fum



sim



MS fraction

GAP



sim



0.0

0.2

0.4

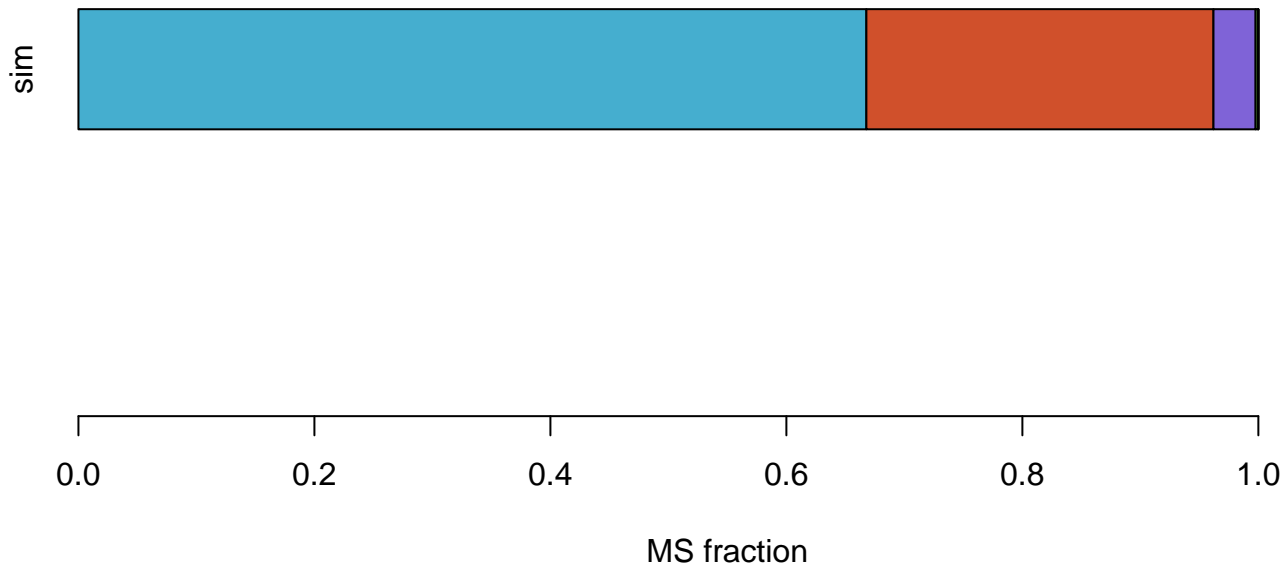
0.6

0.8

1.0

MS fraction

Gln



Glyox



sim



MS fraction

Mal



sim



MS fraction

MEETHF



sim



0.0

0.2

0.4

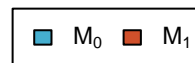
0.6

0.8

1.0

MS fraction

METHF



sim



MS fraction

OAC



sim



MS fraction

PEP



sim



MS fraction

Pro



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

Pyr



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

Suc



sim



MS fraction

SucCoA



MS fraction

TA-C3



sim



0.0

0.2

0.4

0.6

0.8

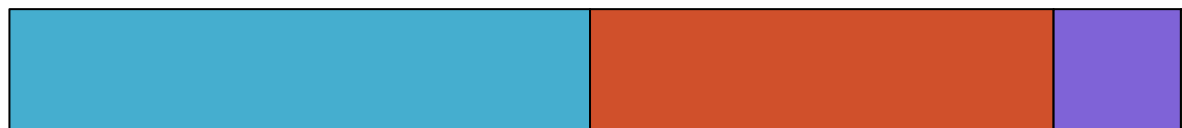
1.0

MS fraction

Thr



sim



MS fraction

TK-C2



MS fraction