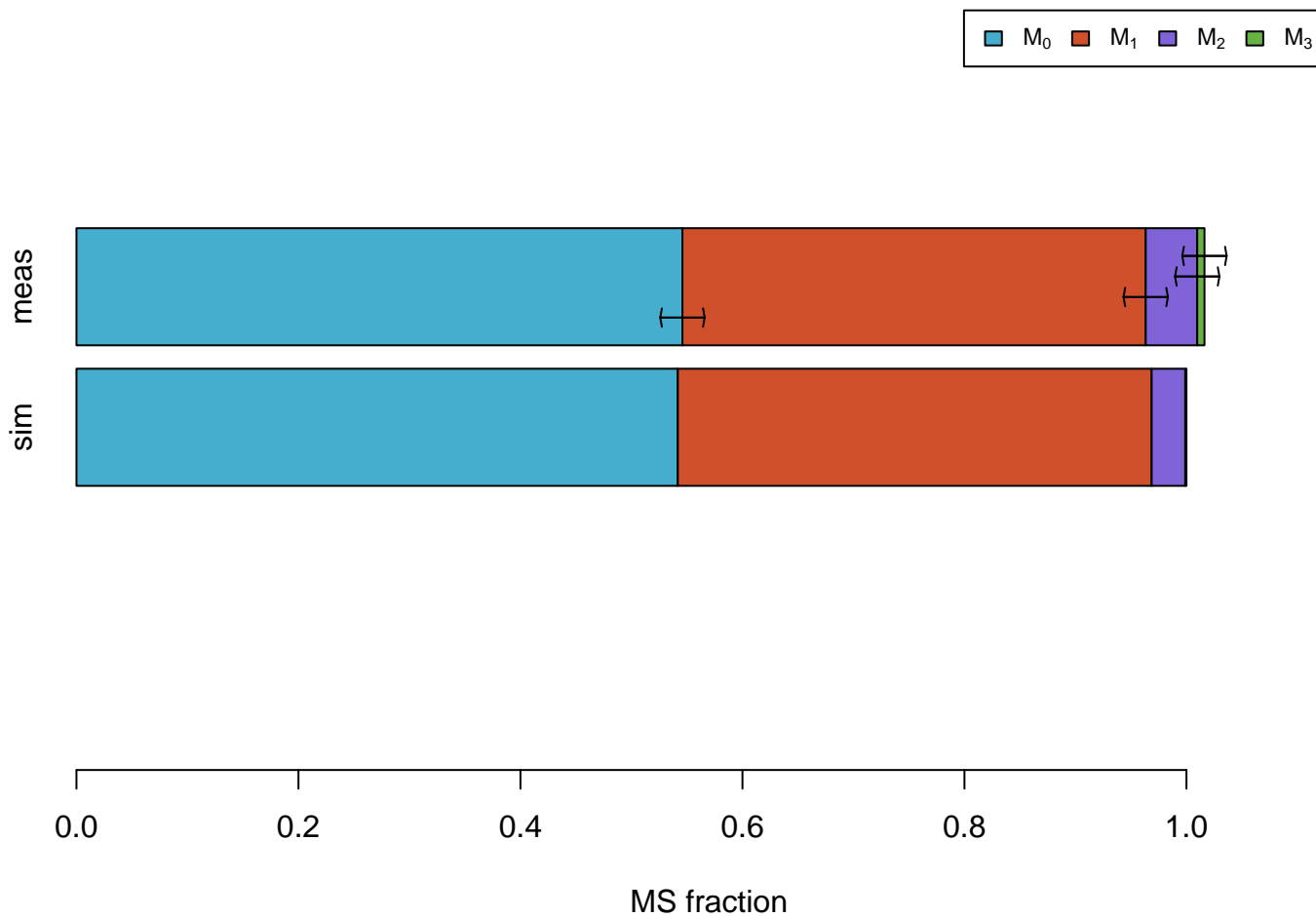
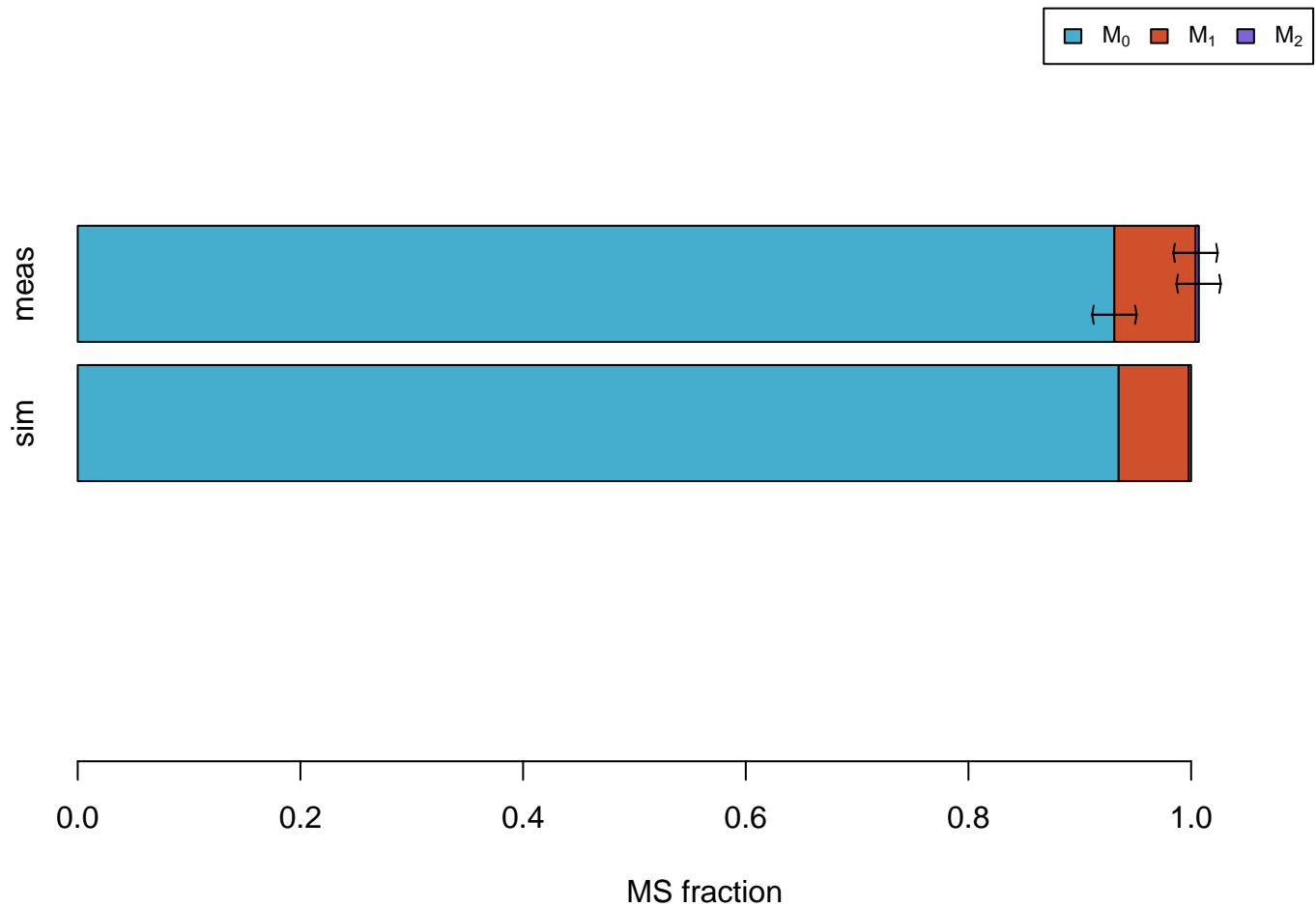


MS measurements
(error bars= $\pm 2 \cdot \text{dev}$)

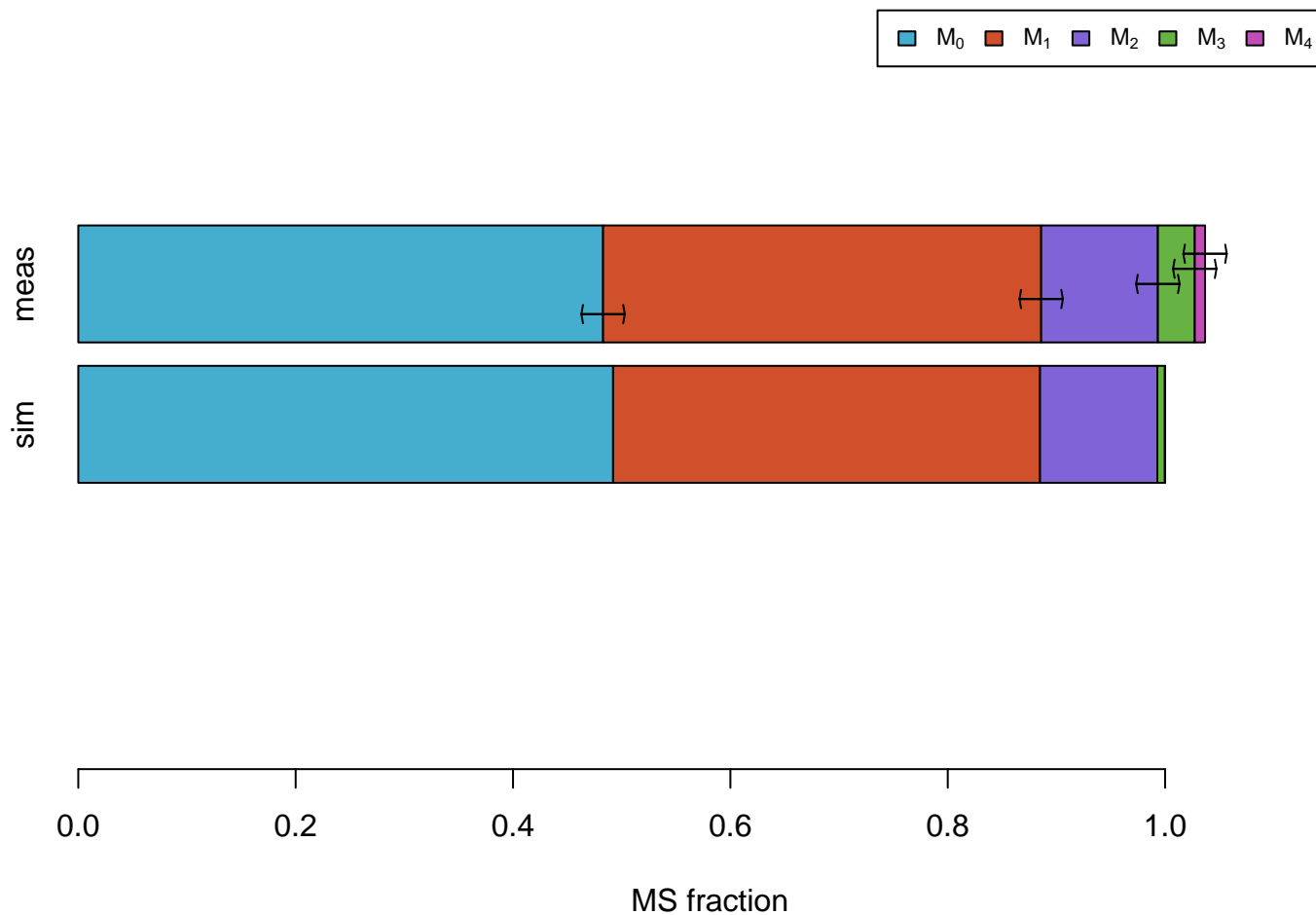
Ala



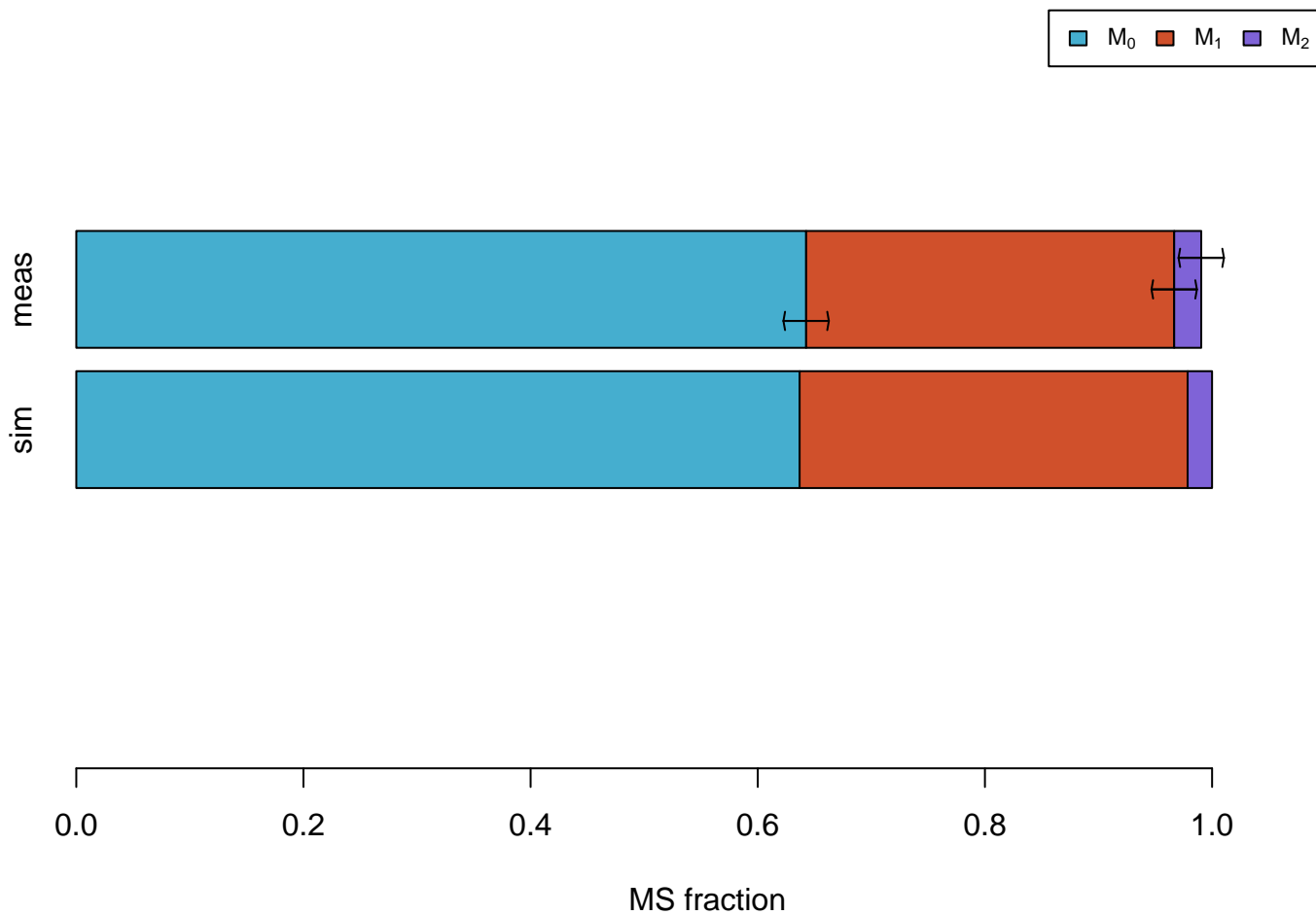
Ala #011



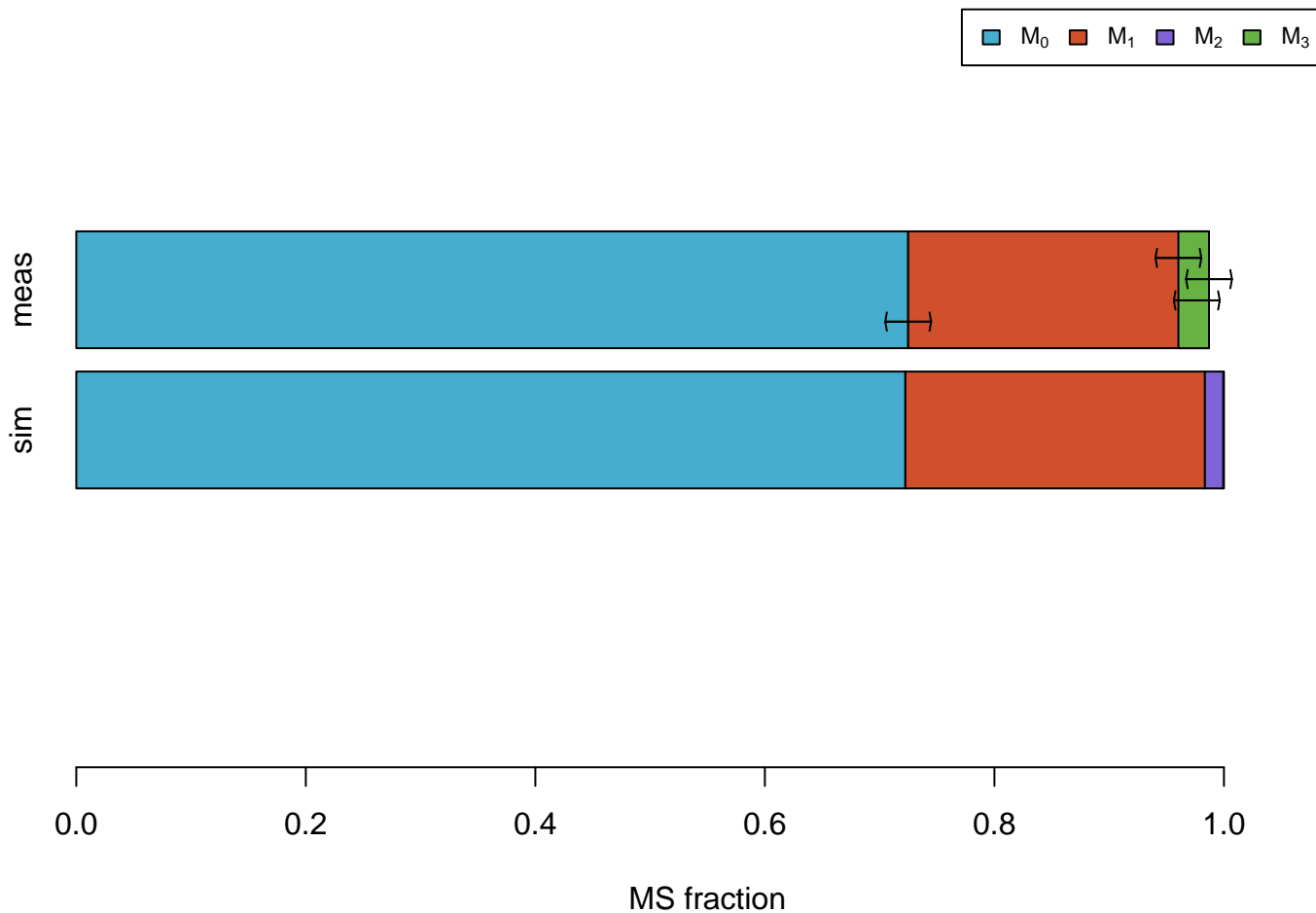
Asp



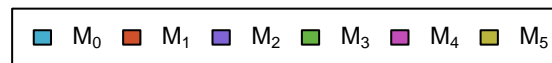
Asp #1100



Asp #0111

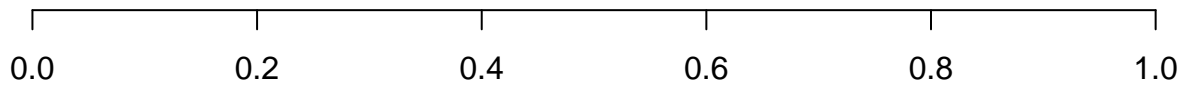


Glu



meas

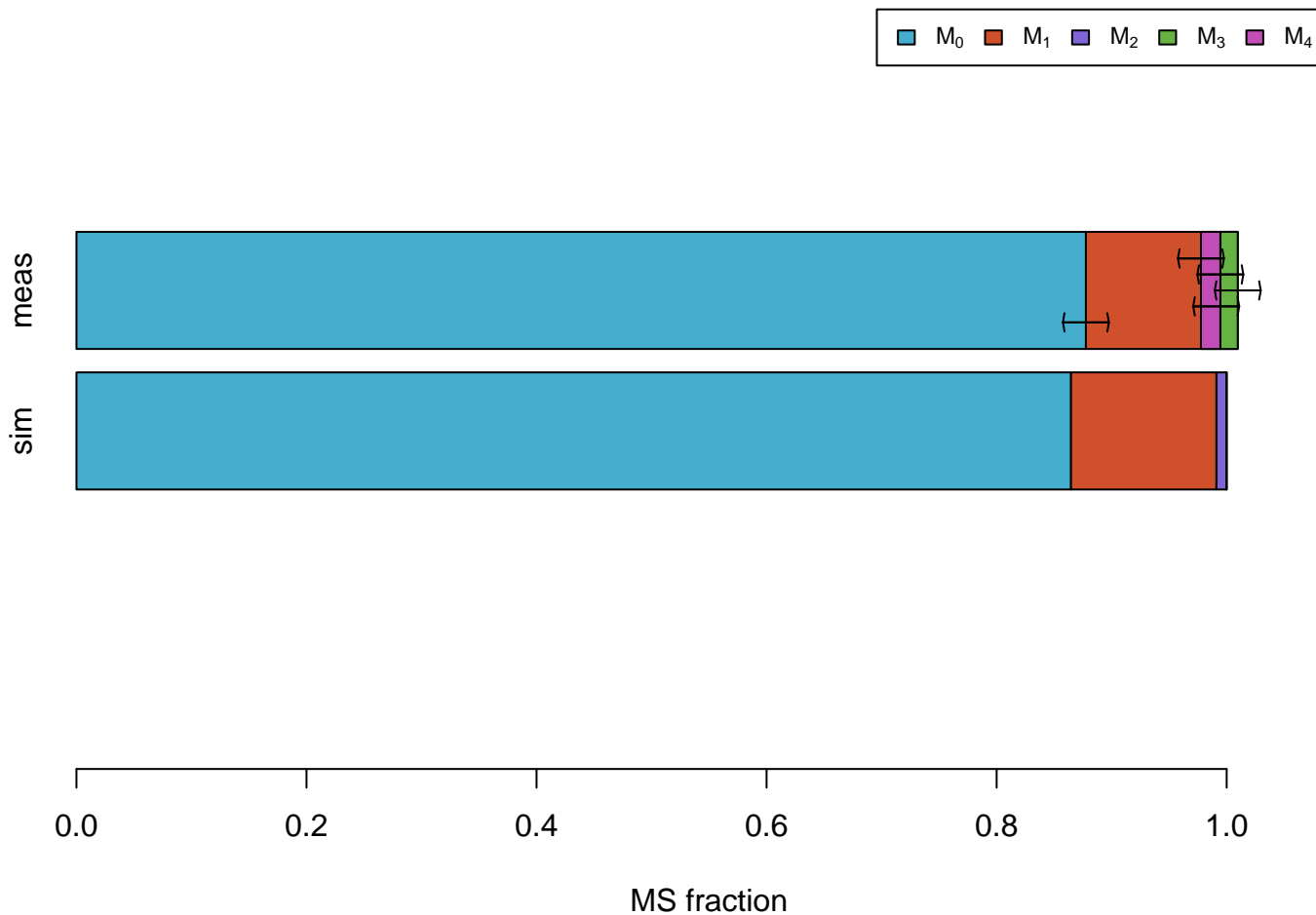
sim



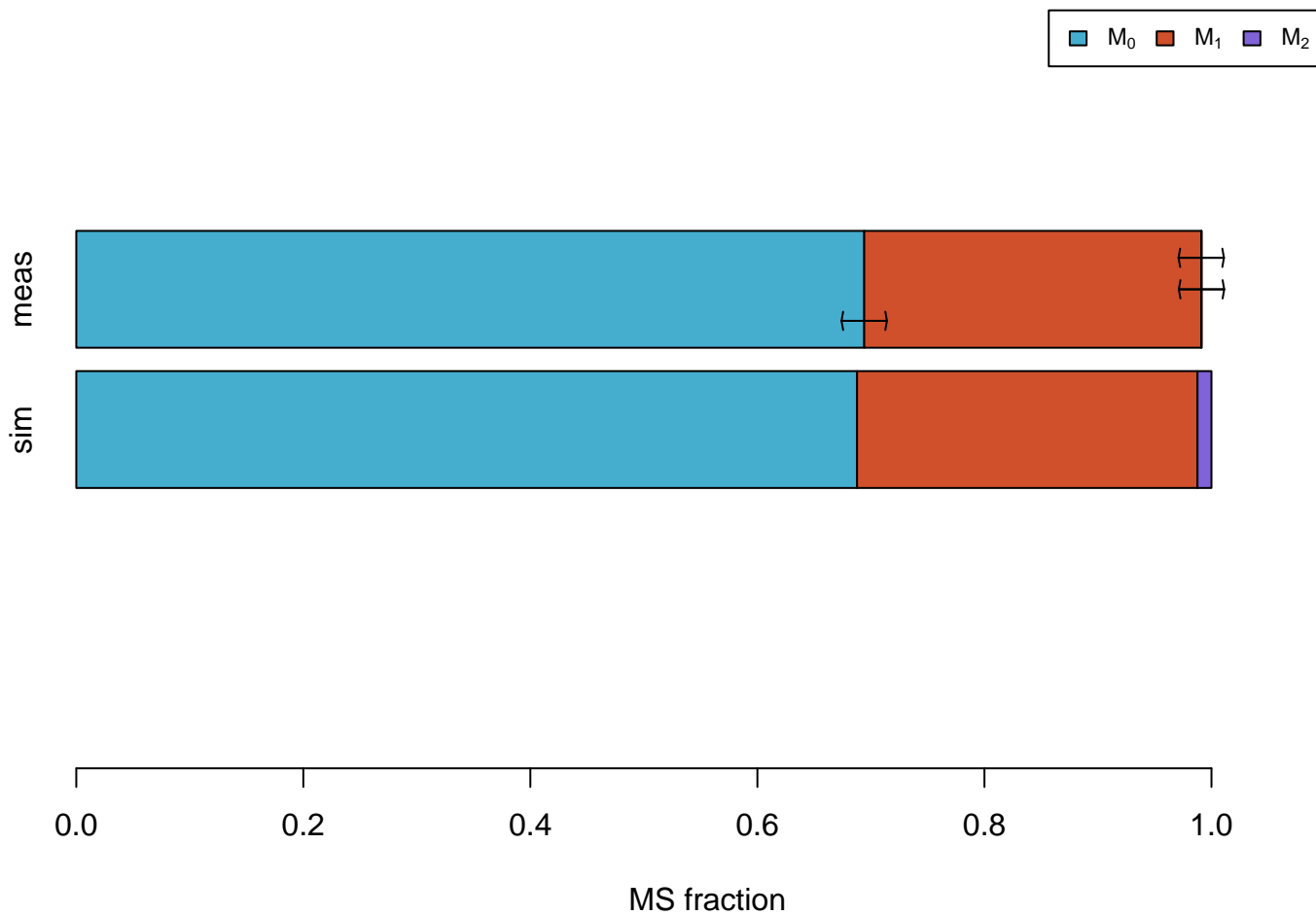
MS fraction



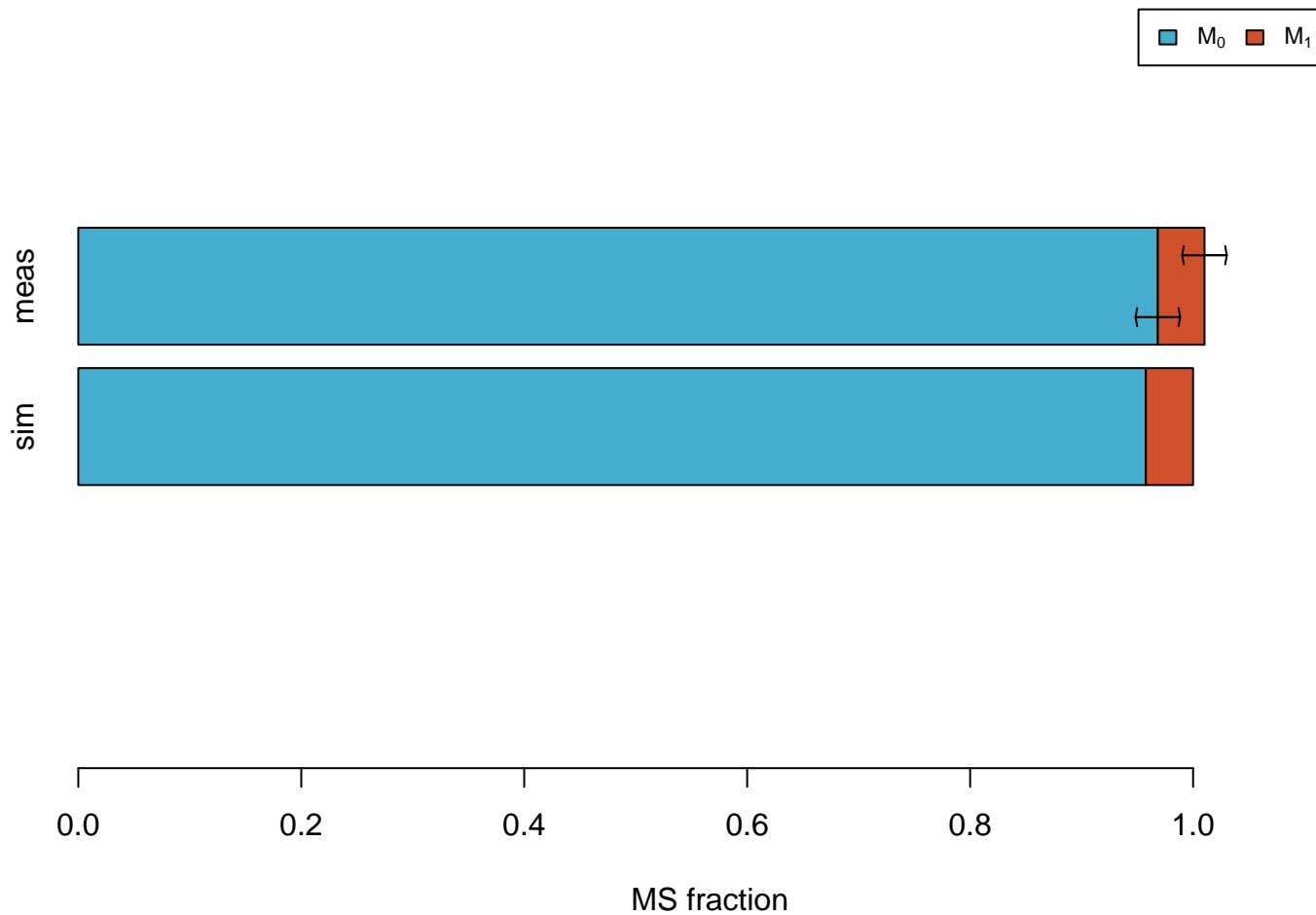
Glu #01111



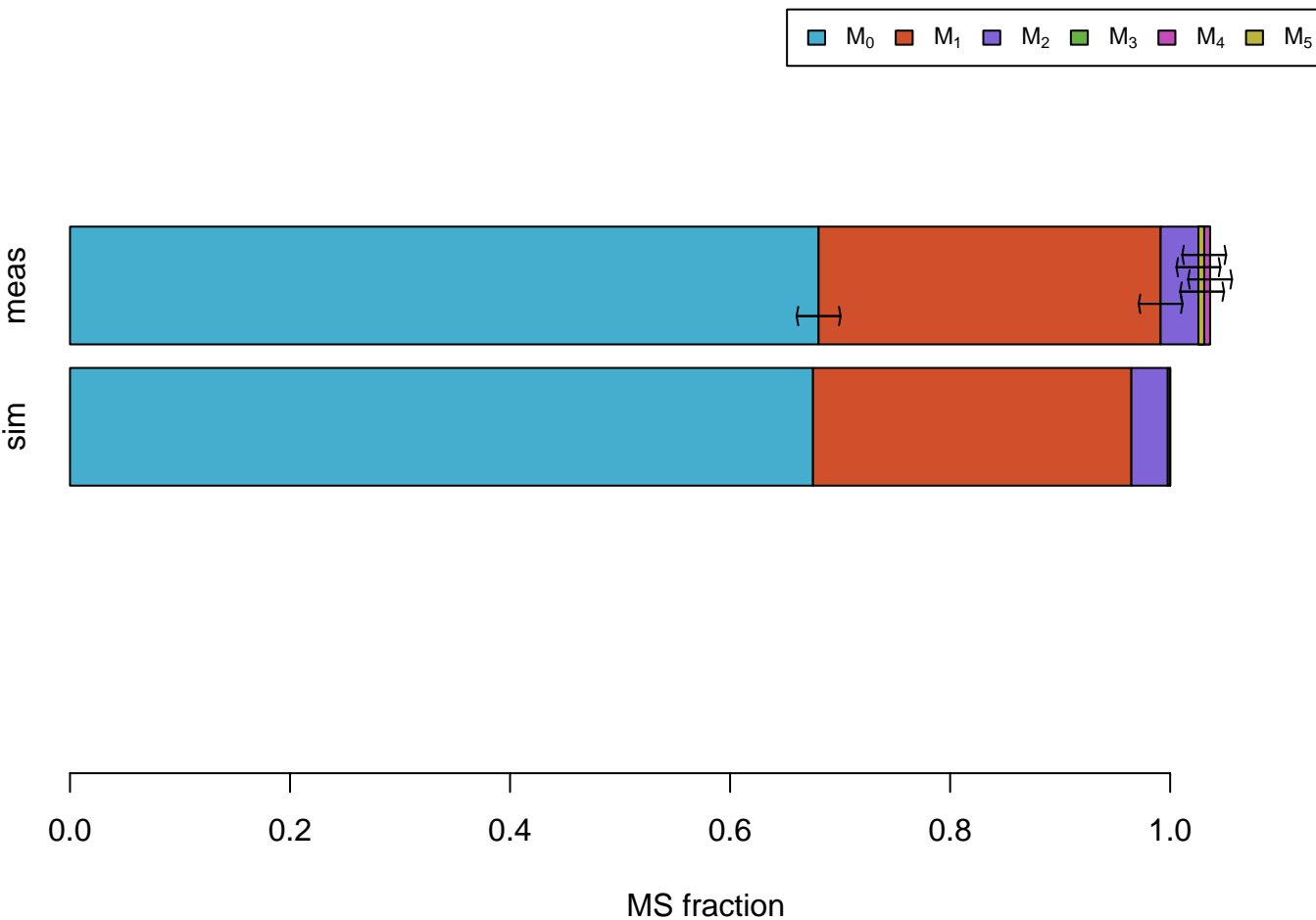
Gly



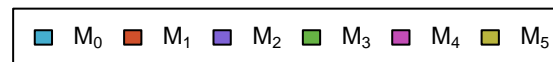
Gly #01



Ile #011111

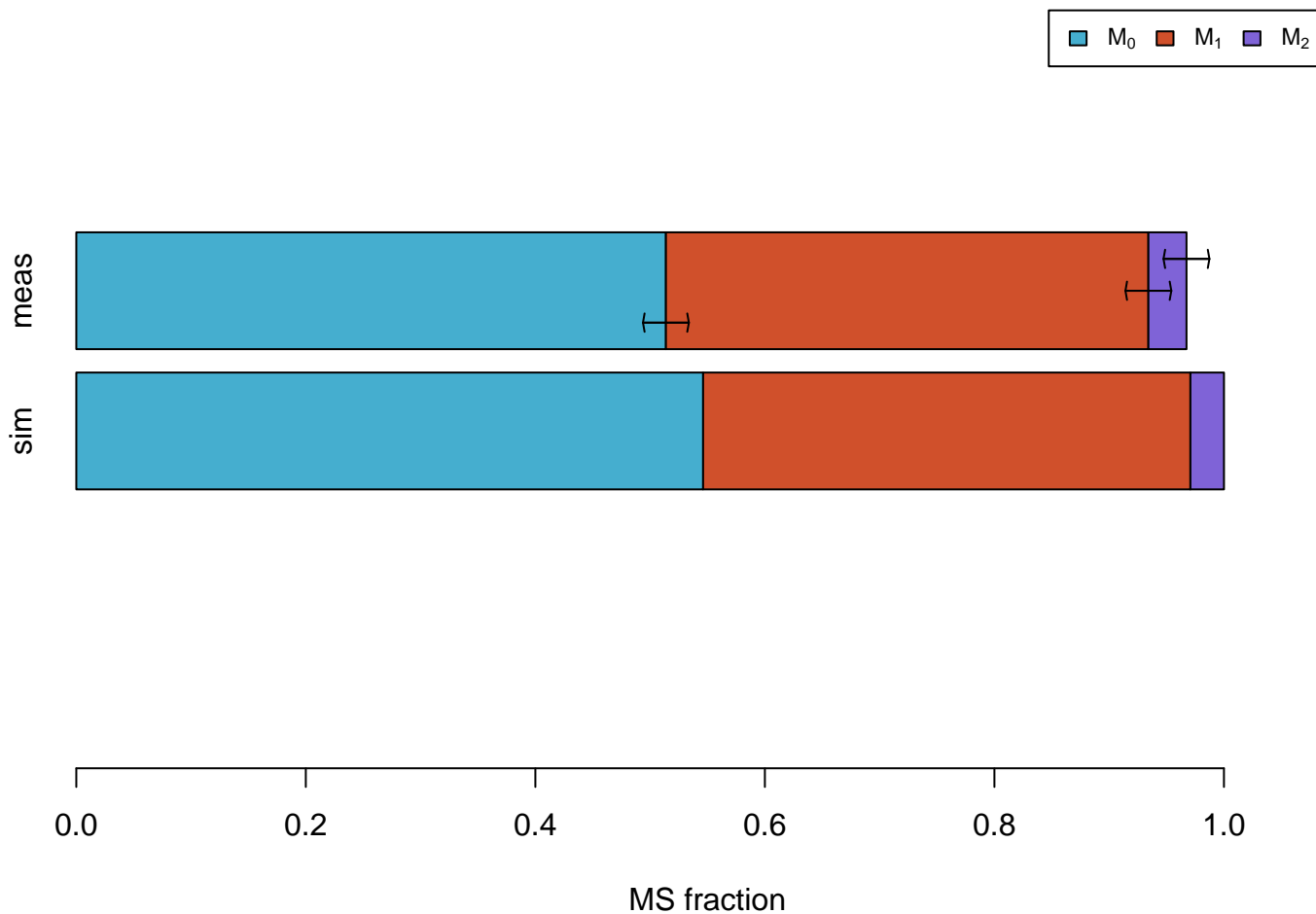


Leu #011111

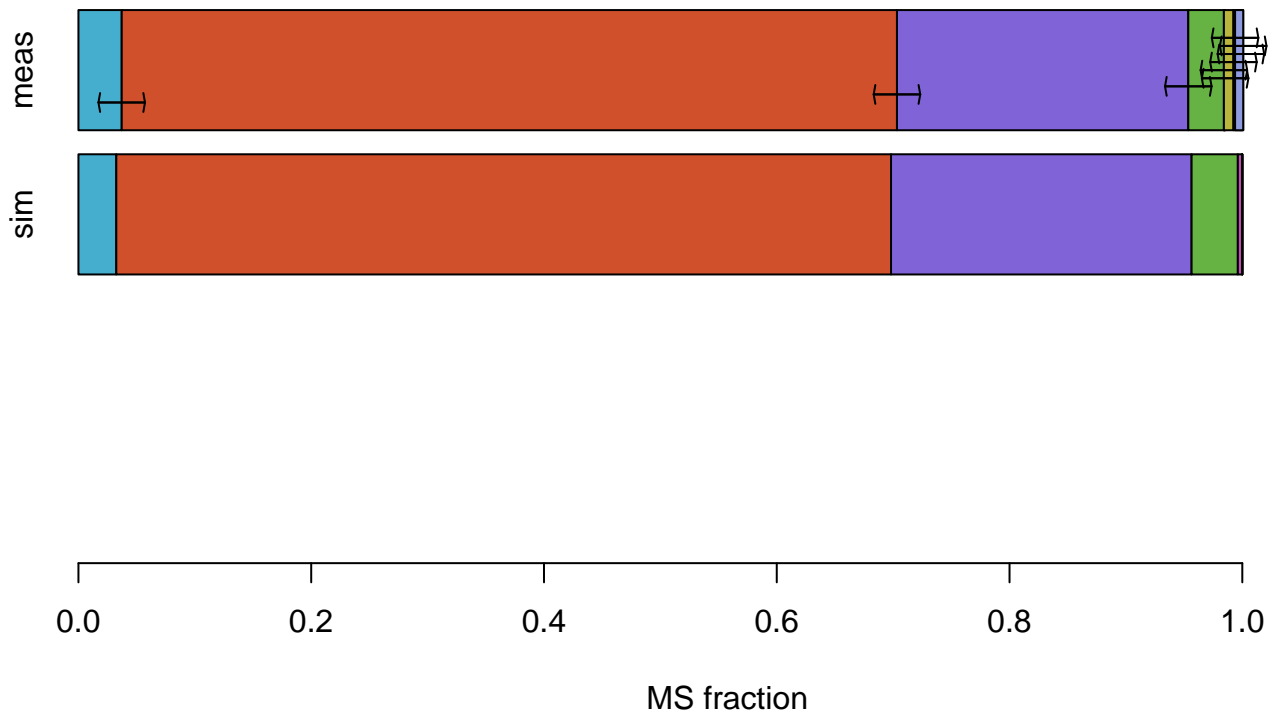


MS fraction

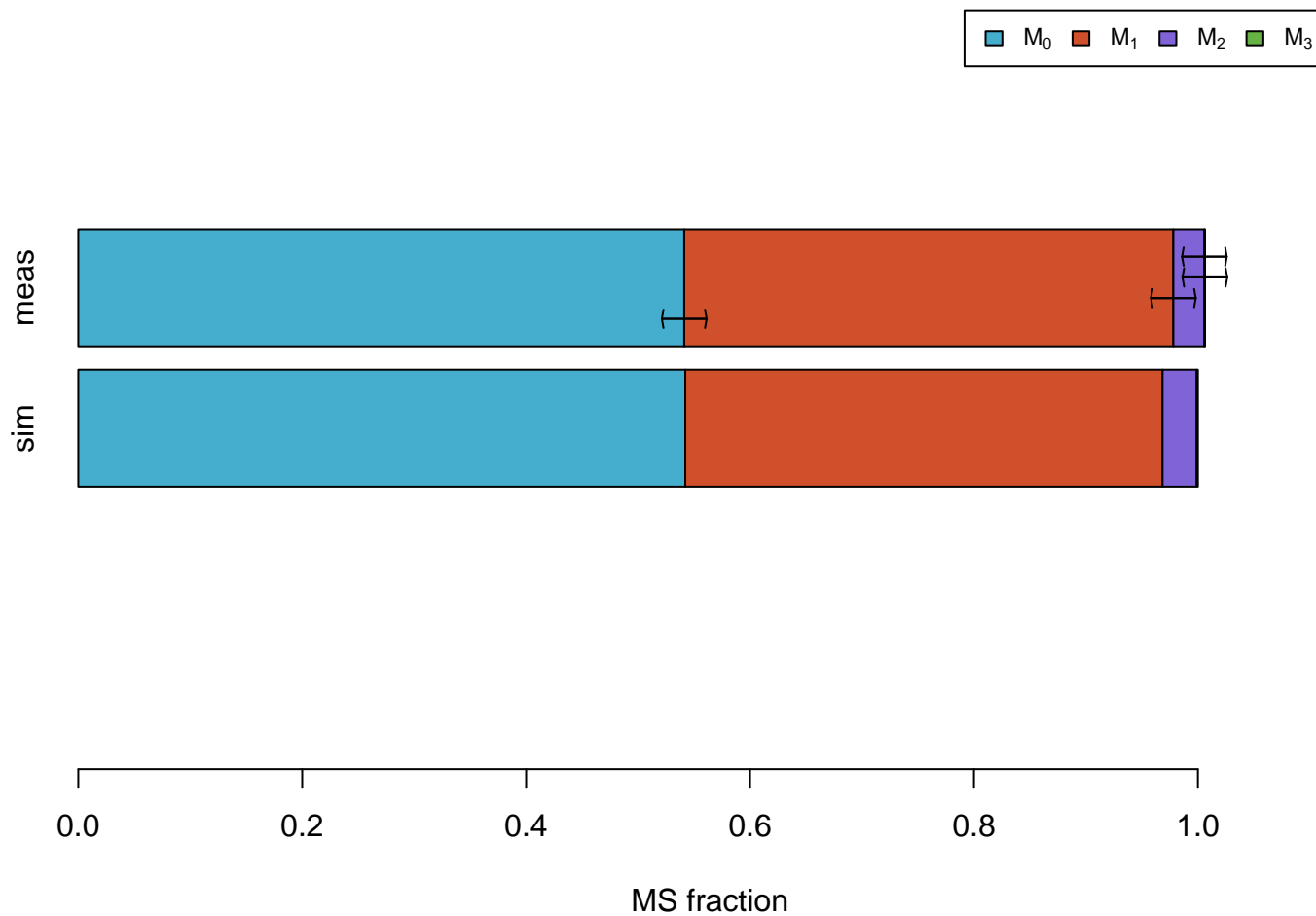
Phe #110000000



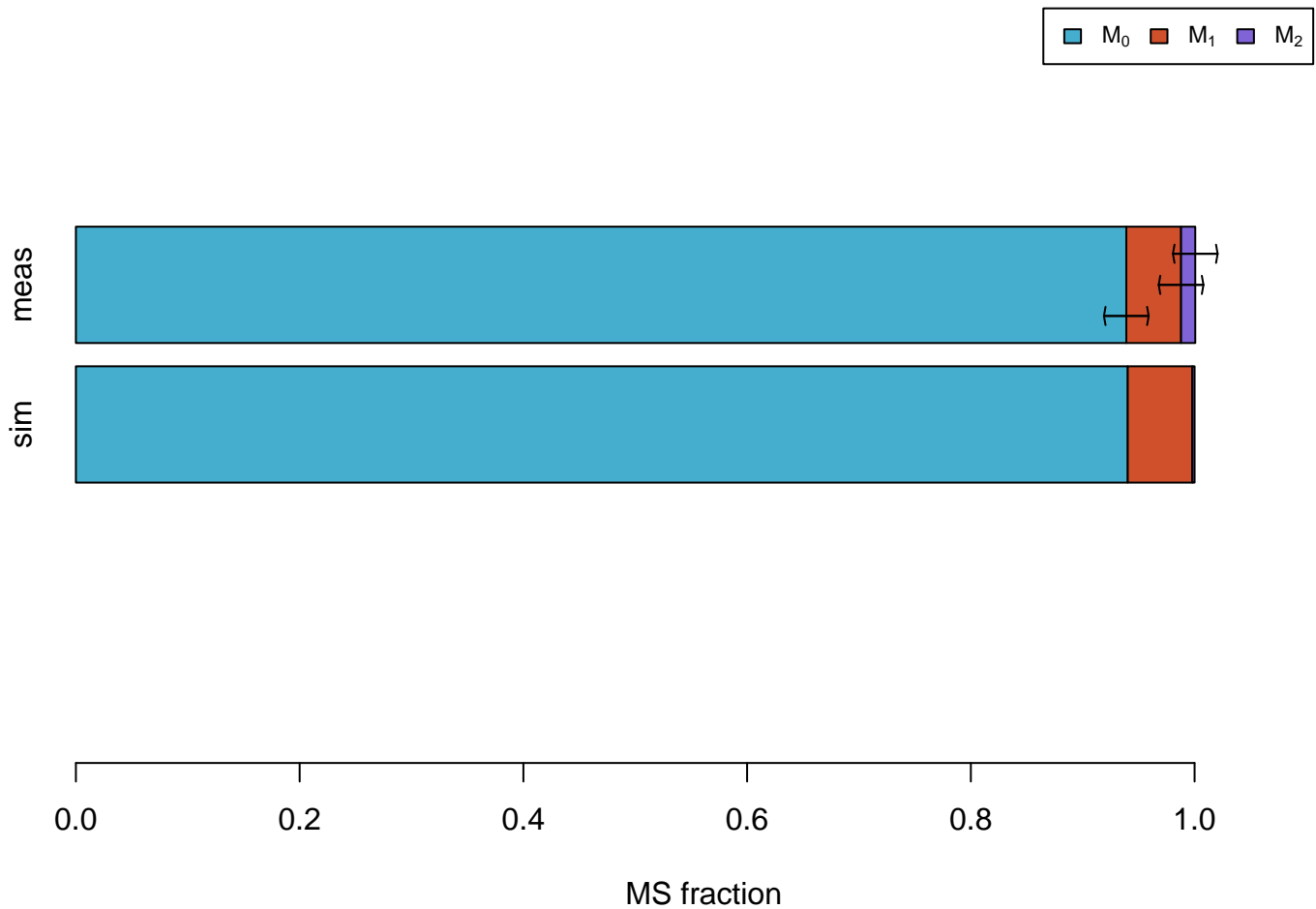
Phe #011111111



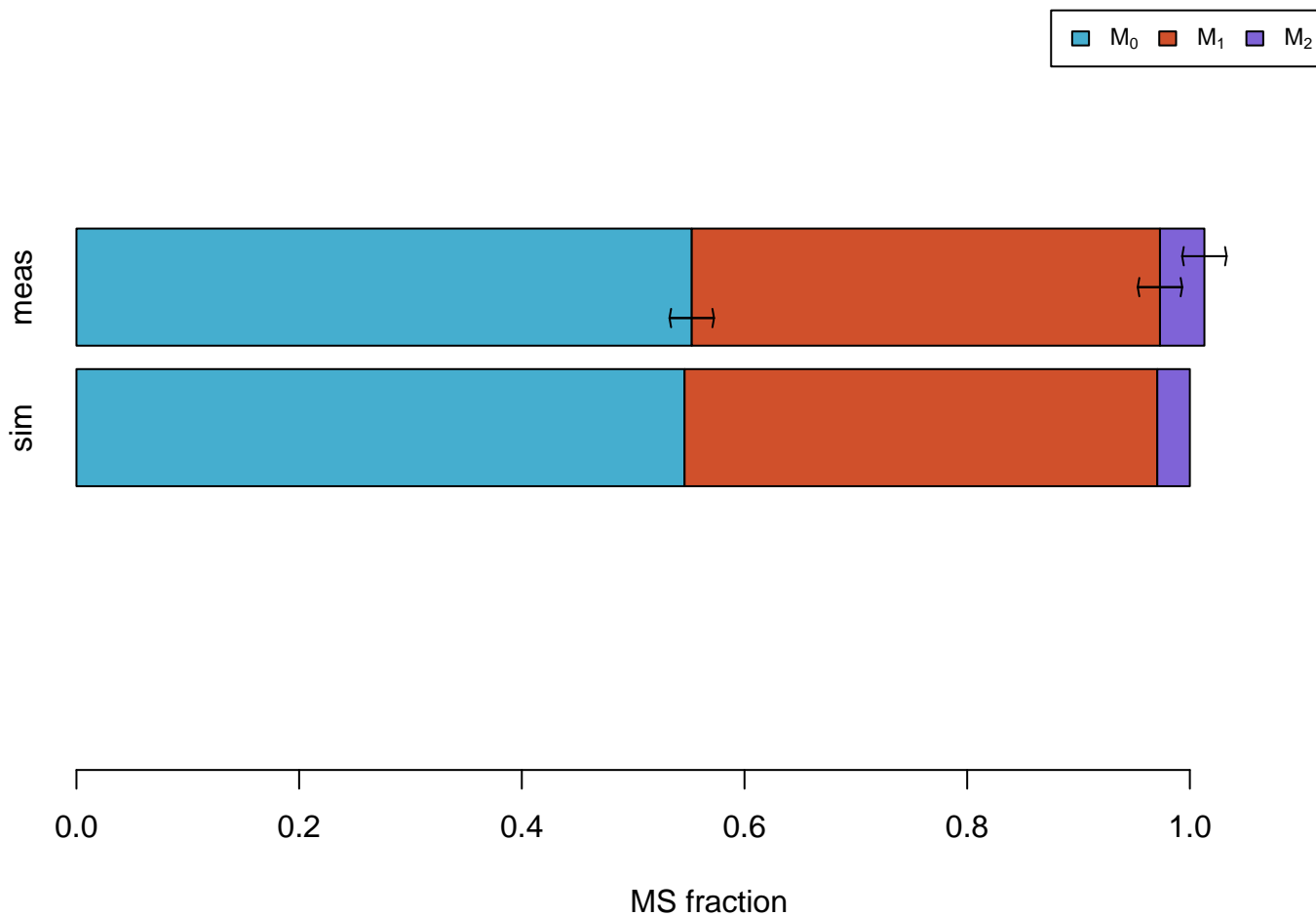
Ser



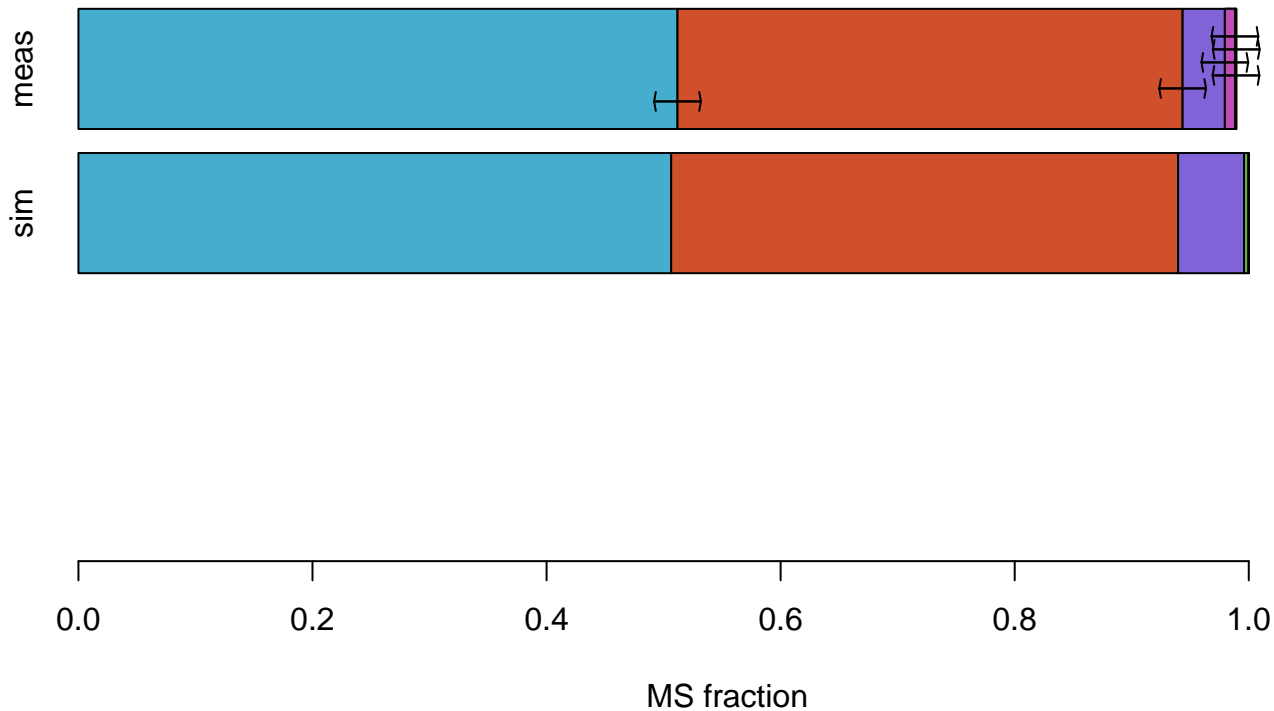
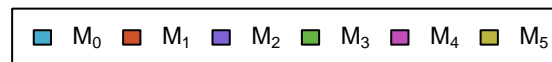
Ser #011



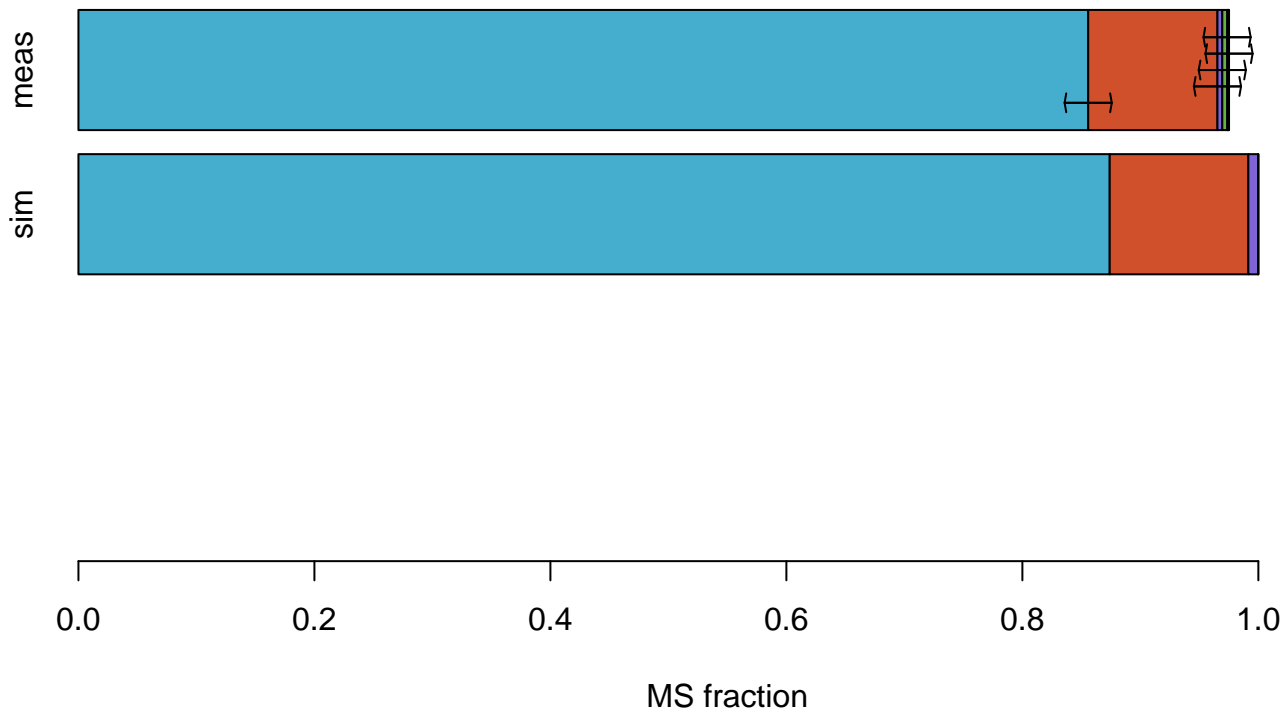
Tyr #110000000



Val



Val #01111

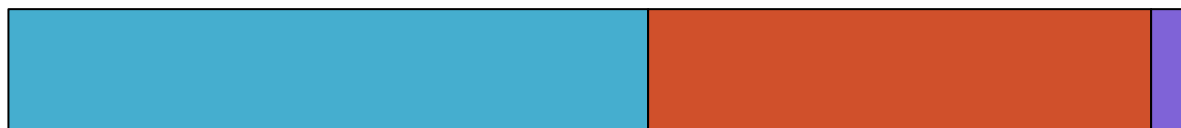


MS simulations

3PG



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

Ac



sim



MS fraction

AcCoA

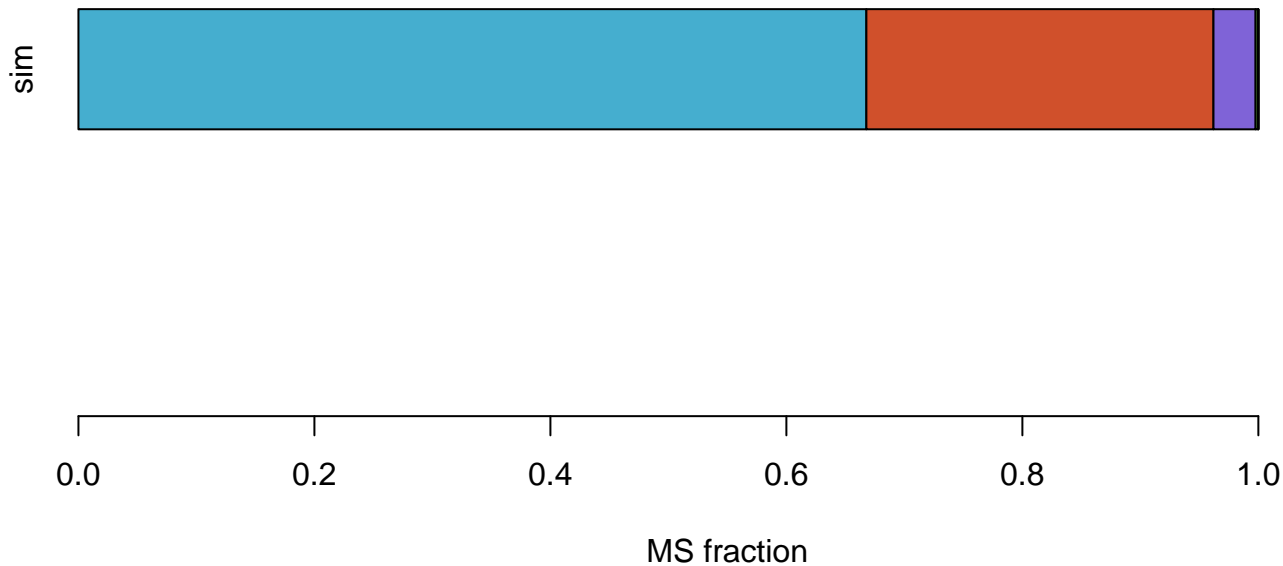
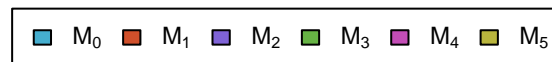


sim



MS fraction

AKG

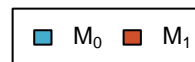


Asn



MS fraction

CO2



sim



MS fraction

Cys



sim



MS fraction

DHAP



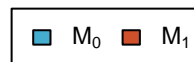
MS fraction

E4P



MS fraction

FTHF



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

Fum

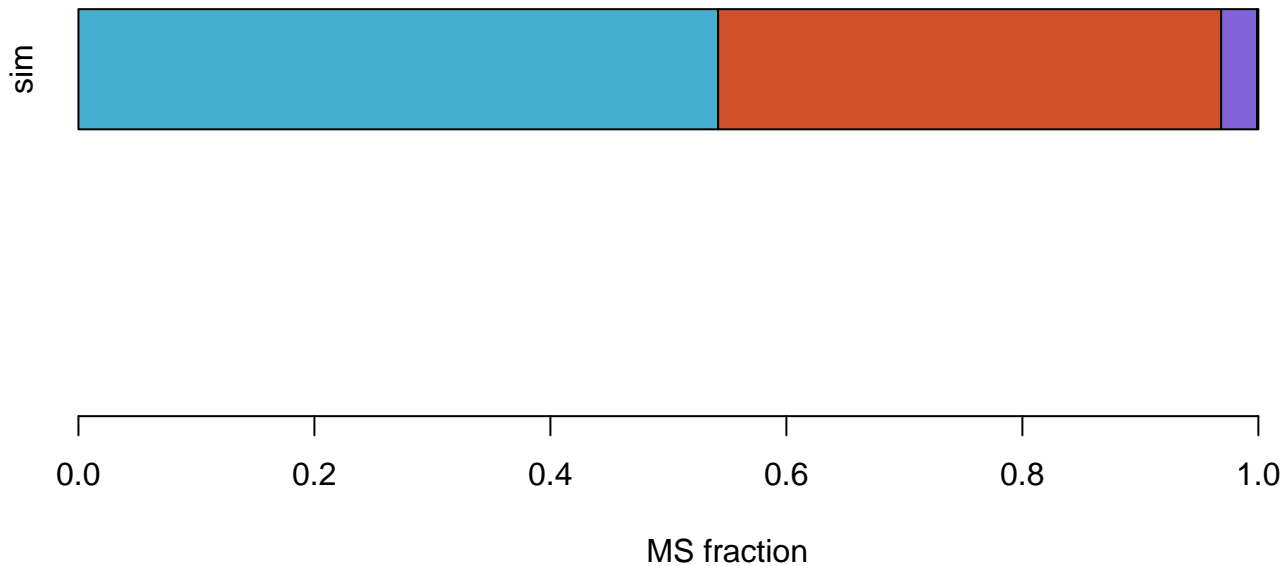


sim

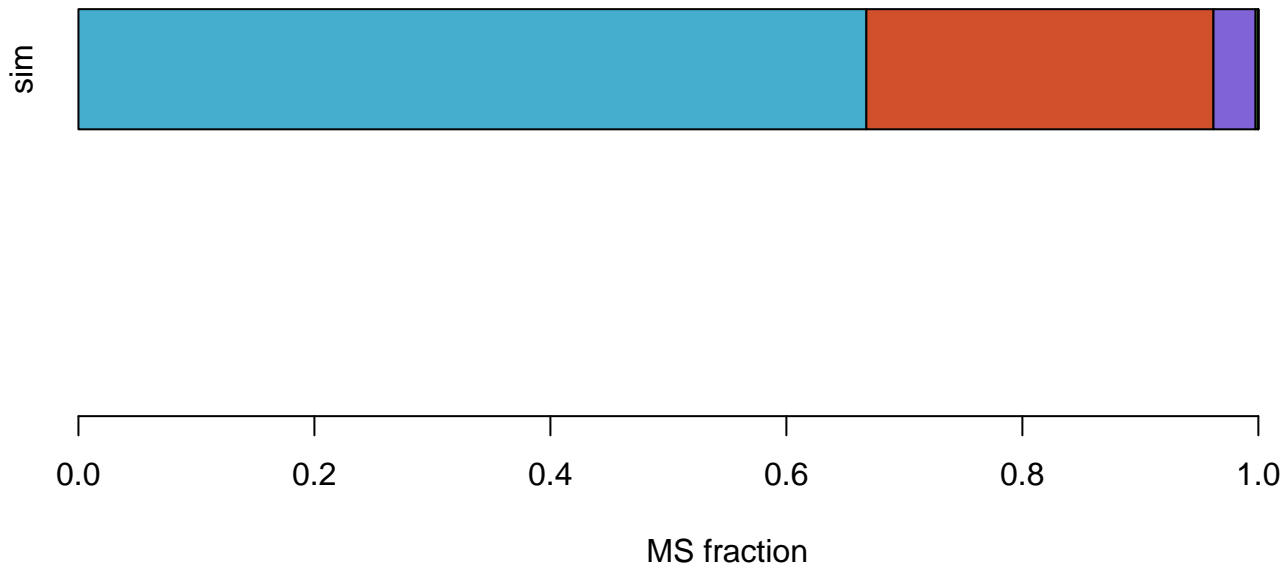
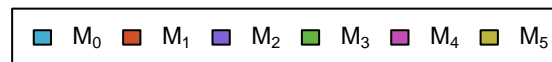


MS fraction

GAP



Gln



Glyox



sim



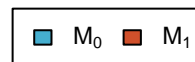
MS fraction

Mal



MS fraction

MEETHF



sim



0.0

0.2

0.4

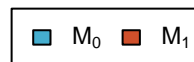
0.6

0.8

1.0

MS fraction

METHF



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

OAC



sim



MS fraction

PEP

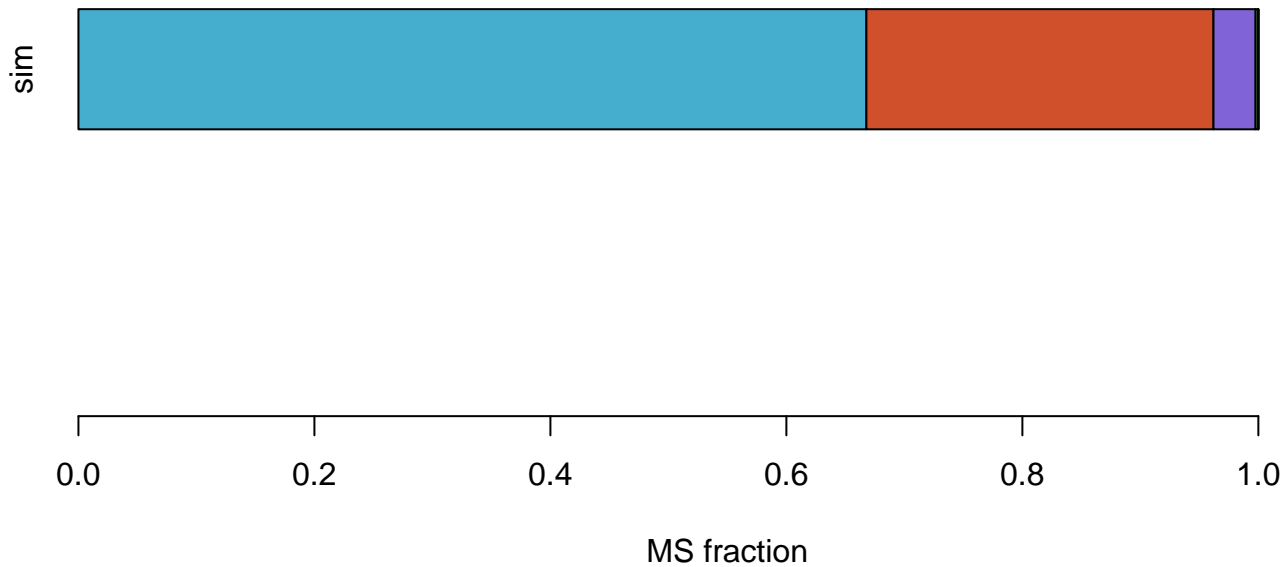
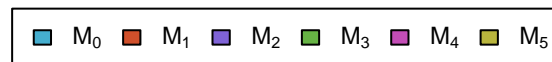


sim



MS fraction

Pro



Pyr



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

Suc



sim



MS fraction

SucCoA



sim



MS fraction

TA-C3



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

Thr



sim



0.0

0.2

0.4

0.6

0.8

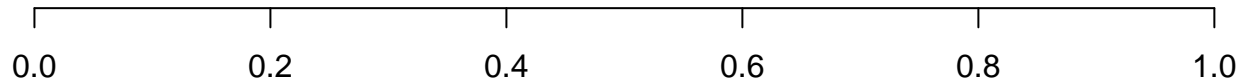
1.0

MS fraction

TK-C2



sim



MS fraction