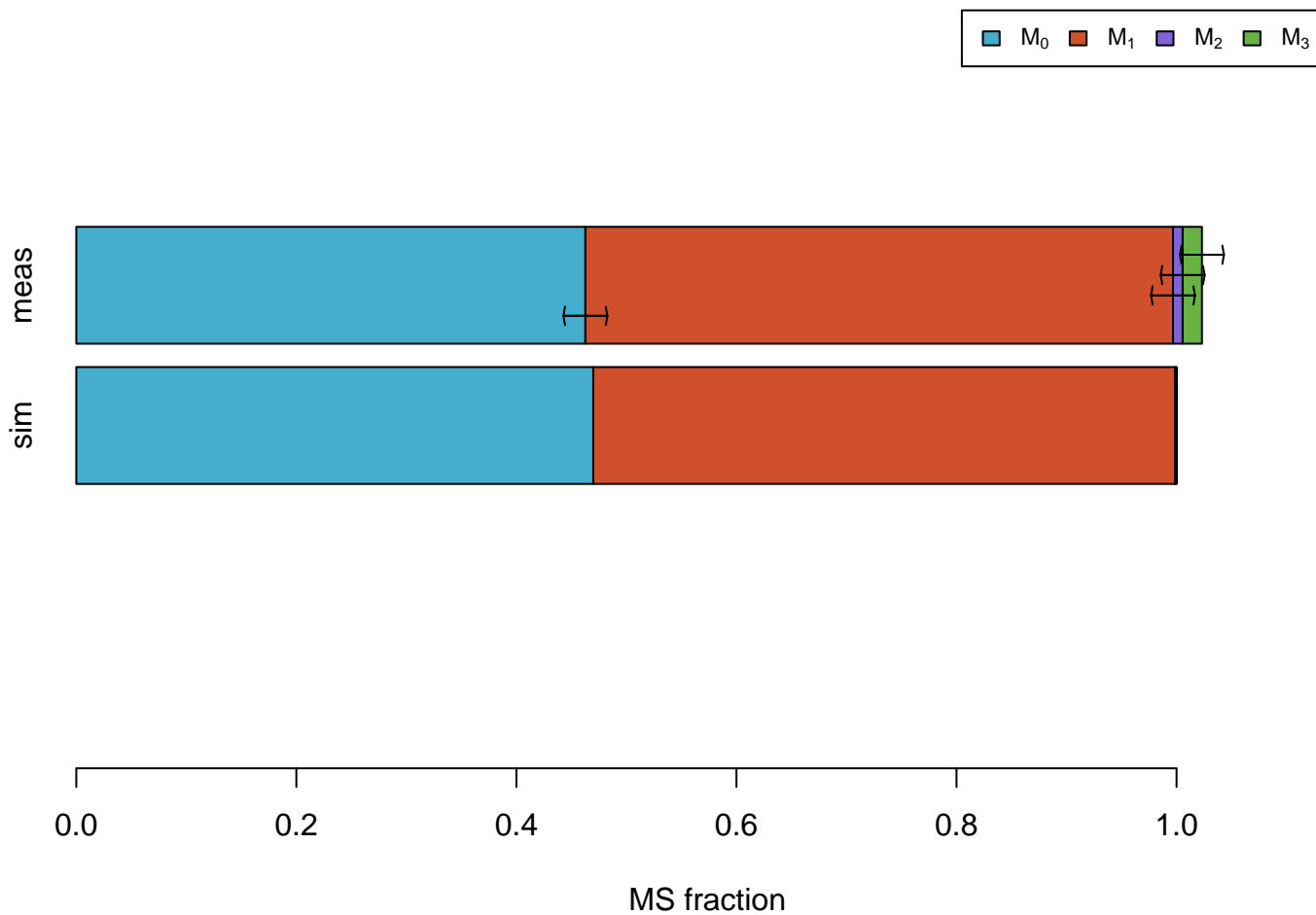
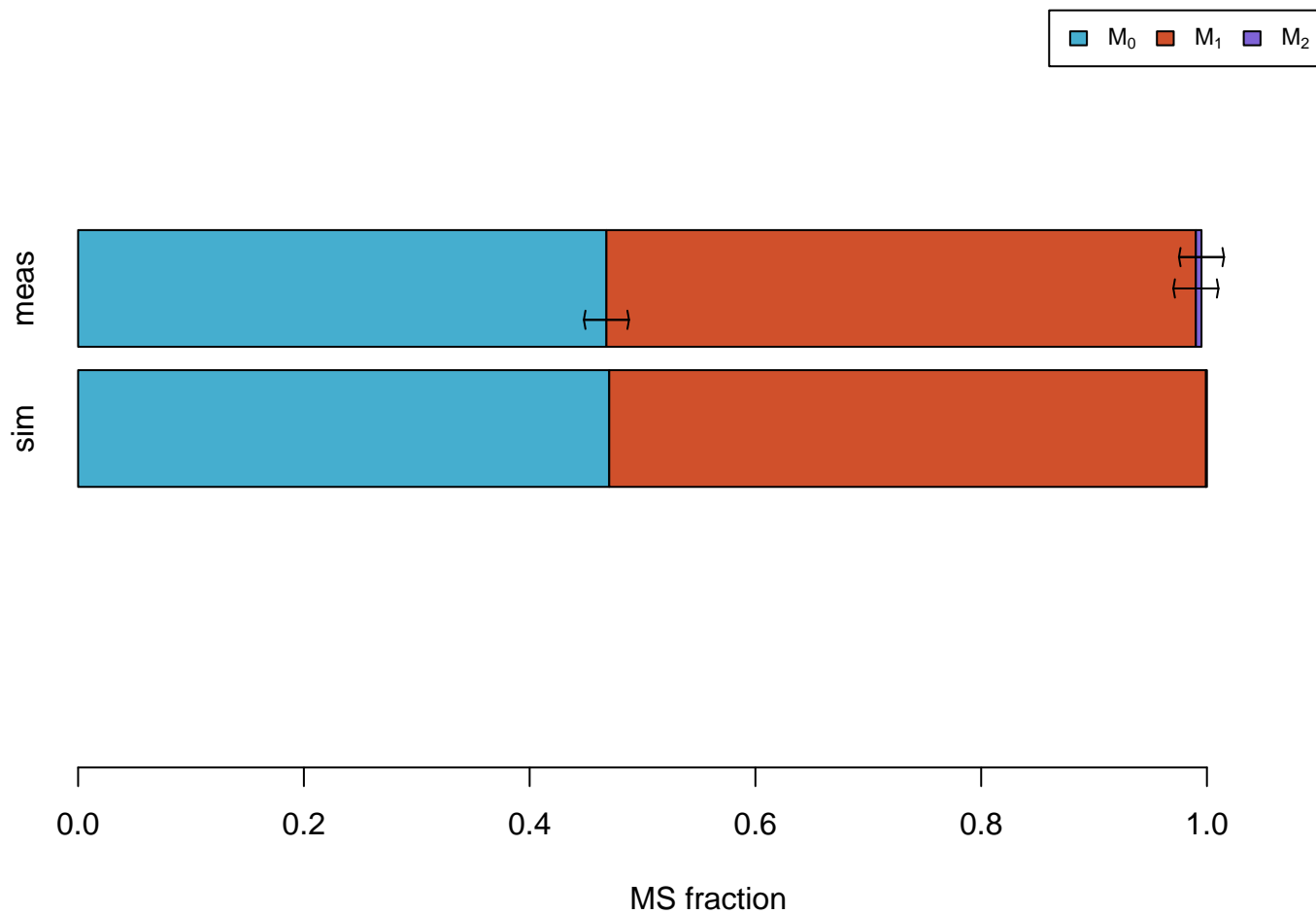


MS measurements  
(error bars= $\pm 2 \cdot \text{dev}$ )

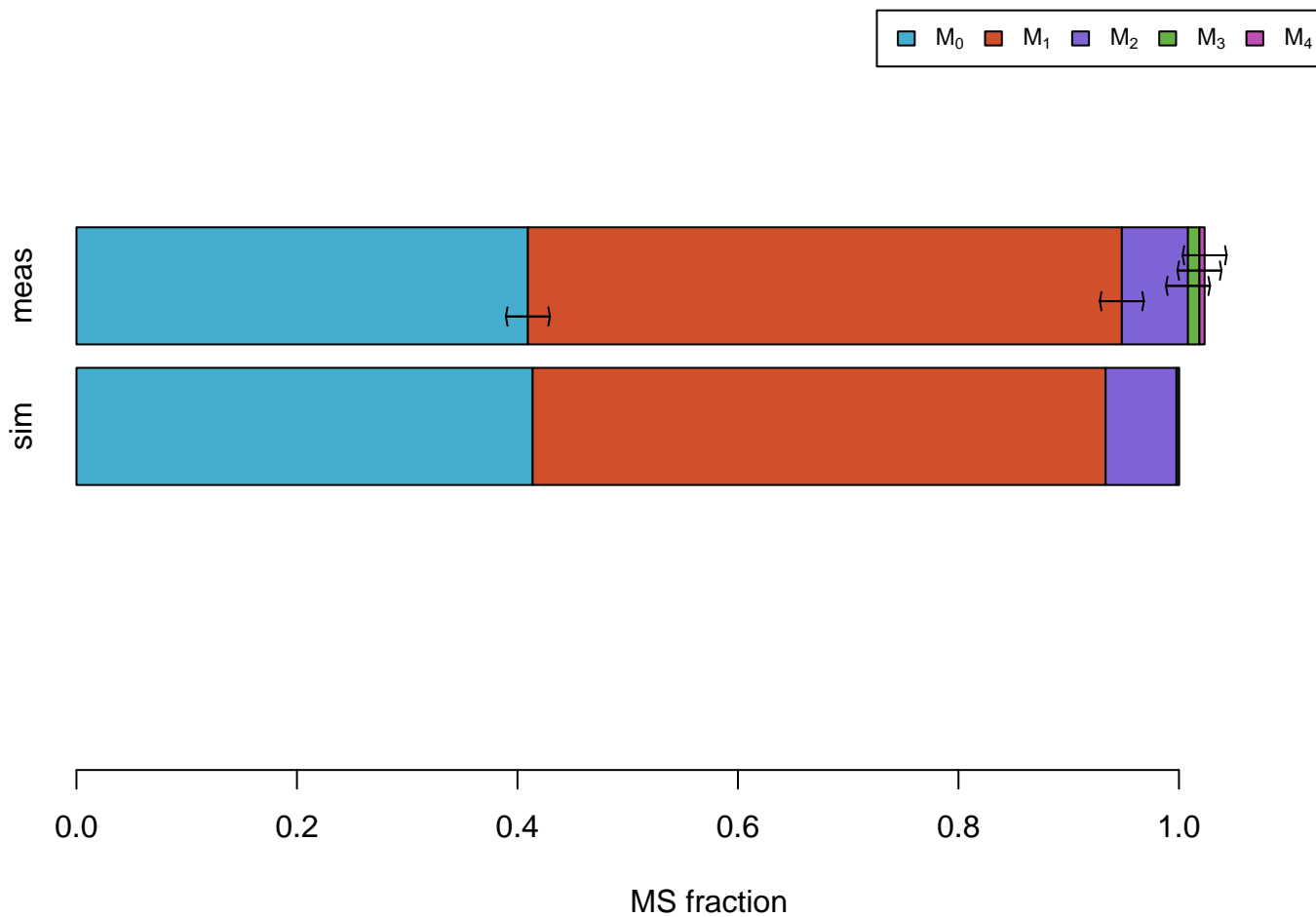
# Ala



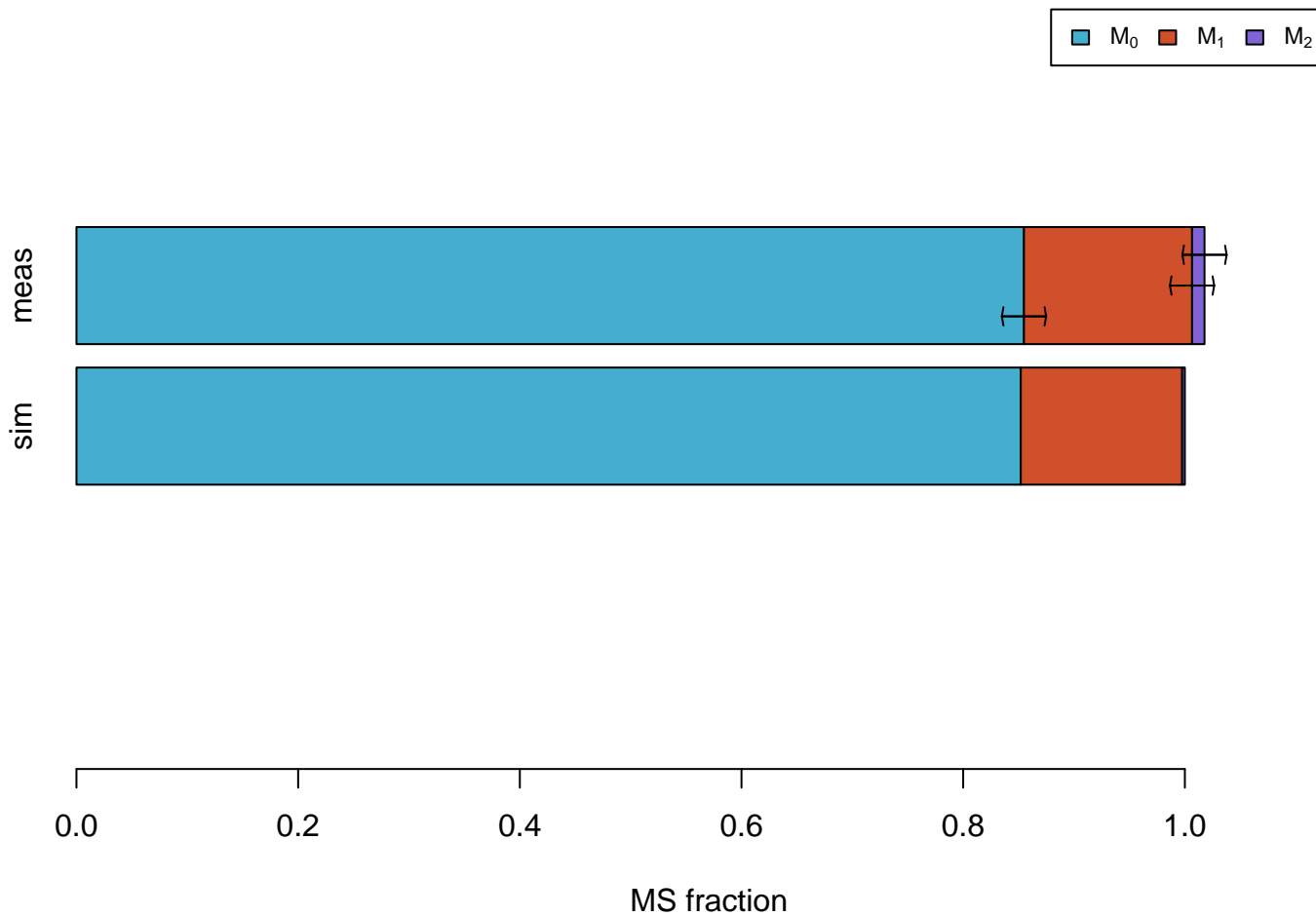
# Ala #011



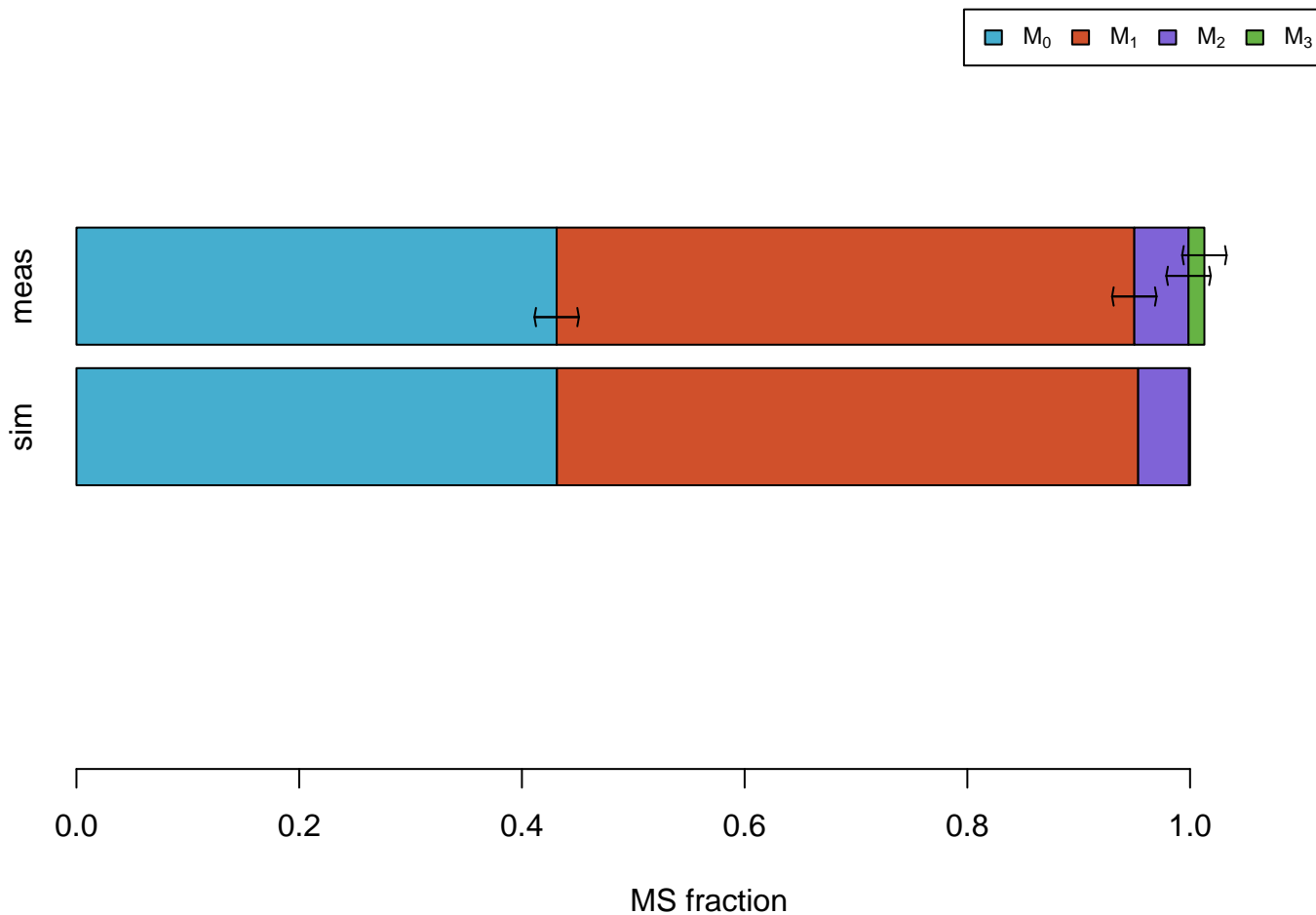
# Asp



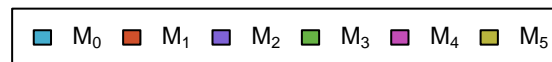
# Asp #1100



# Asp #0111

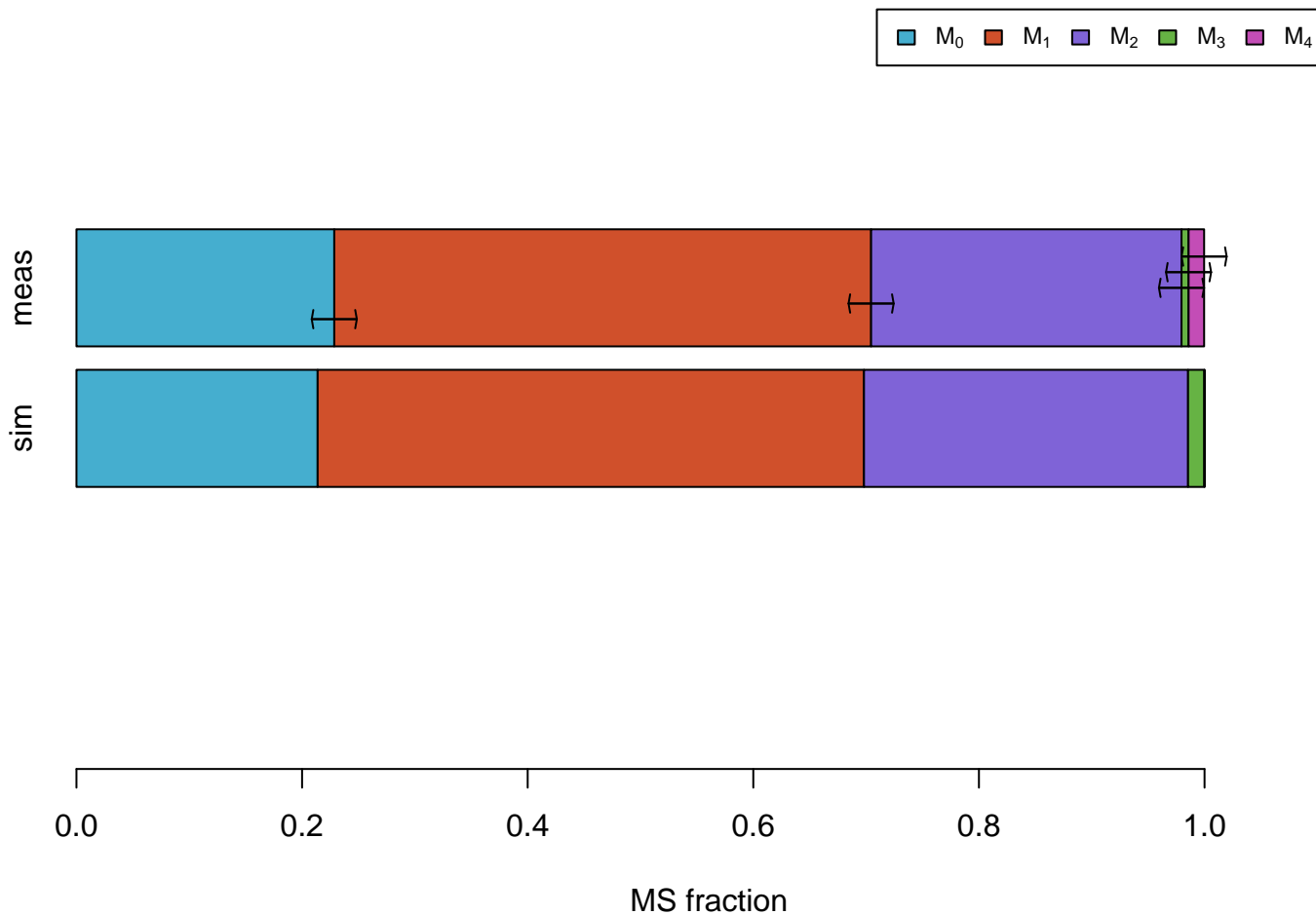


# Glu



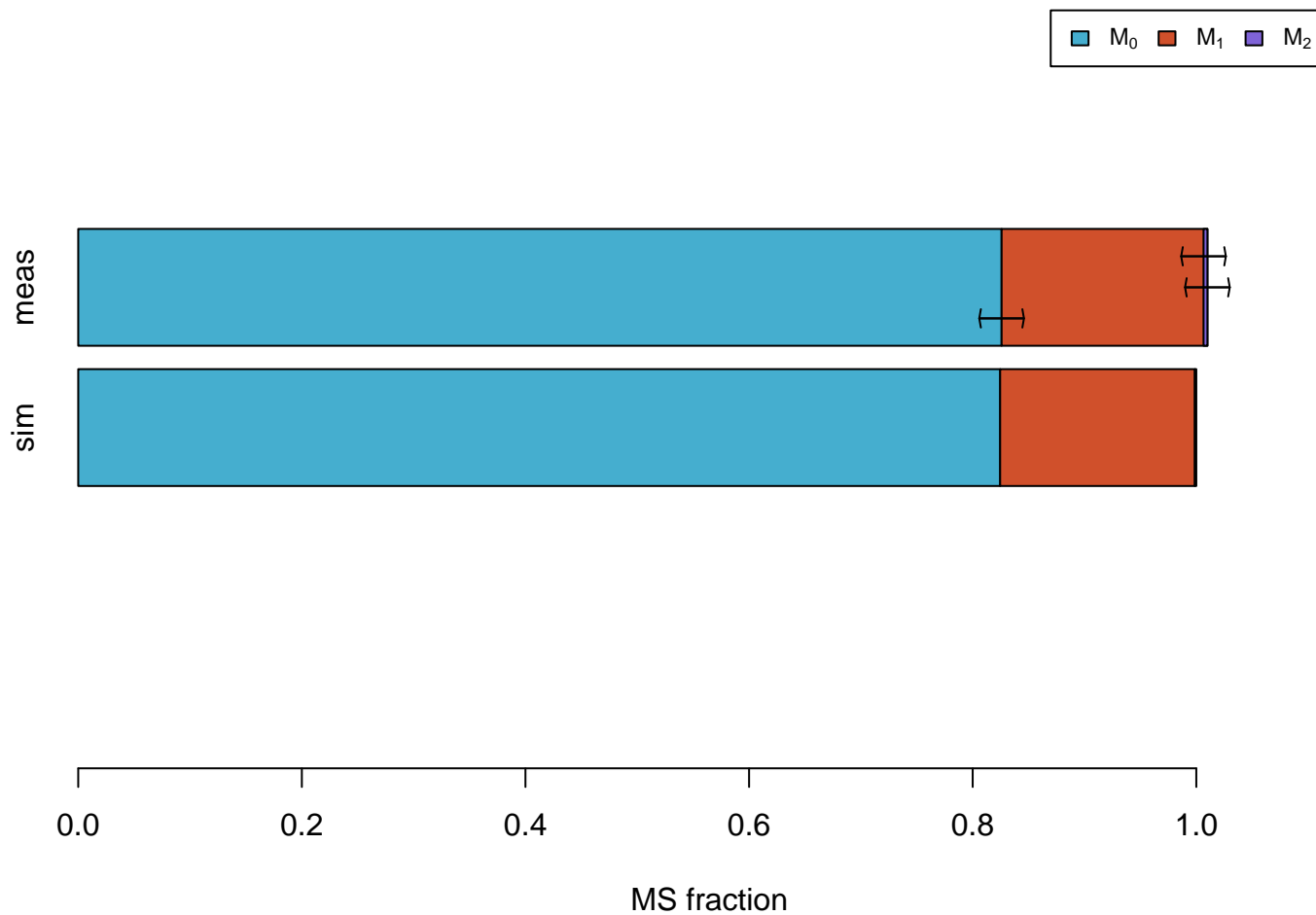
MS fraction

# Glu #01111

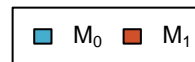




# Gly



# Gly #01



meas

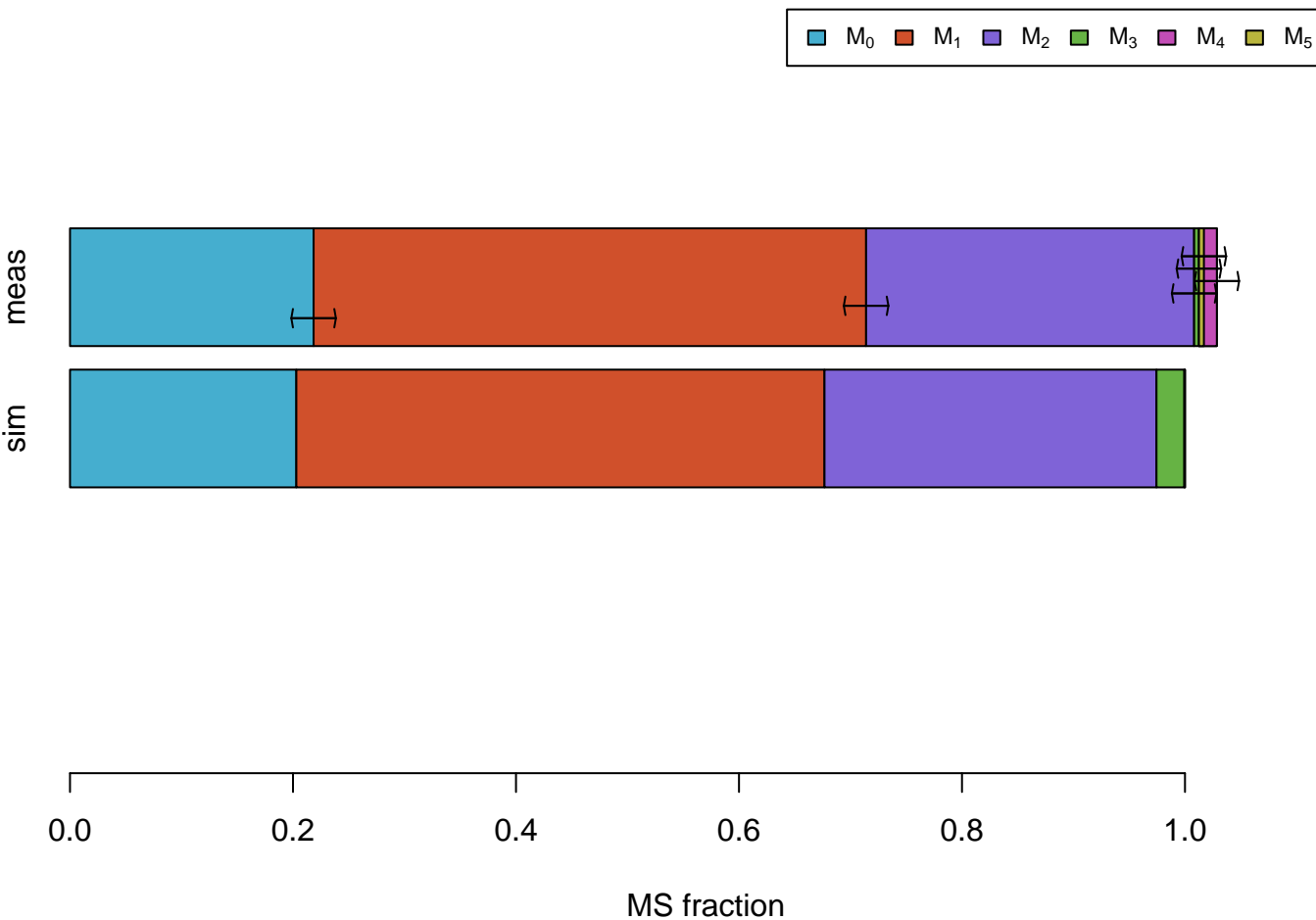
sim



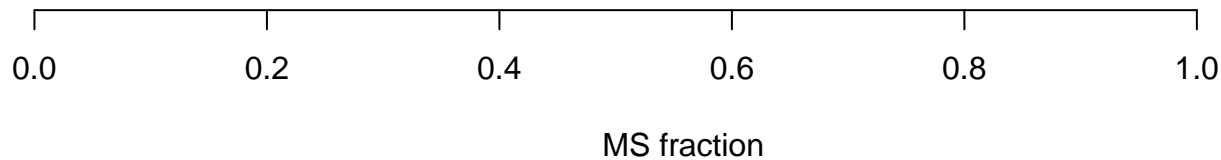
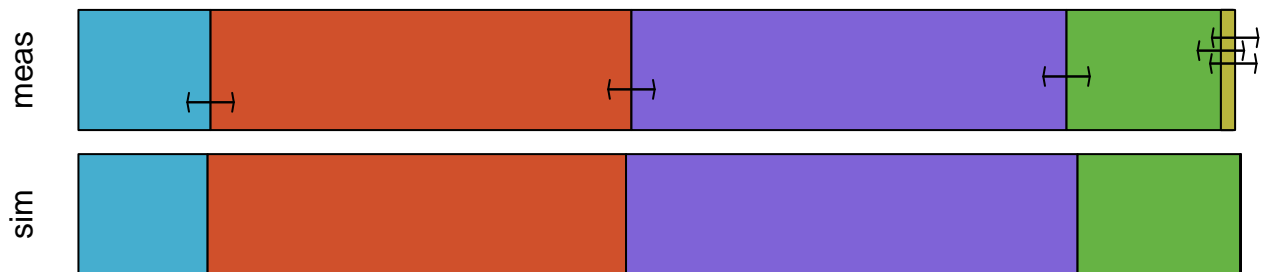
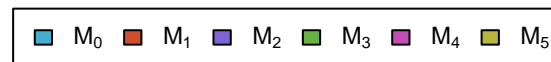
MS fraction



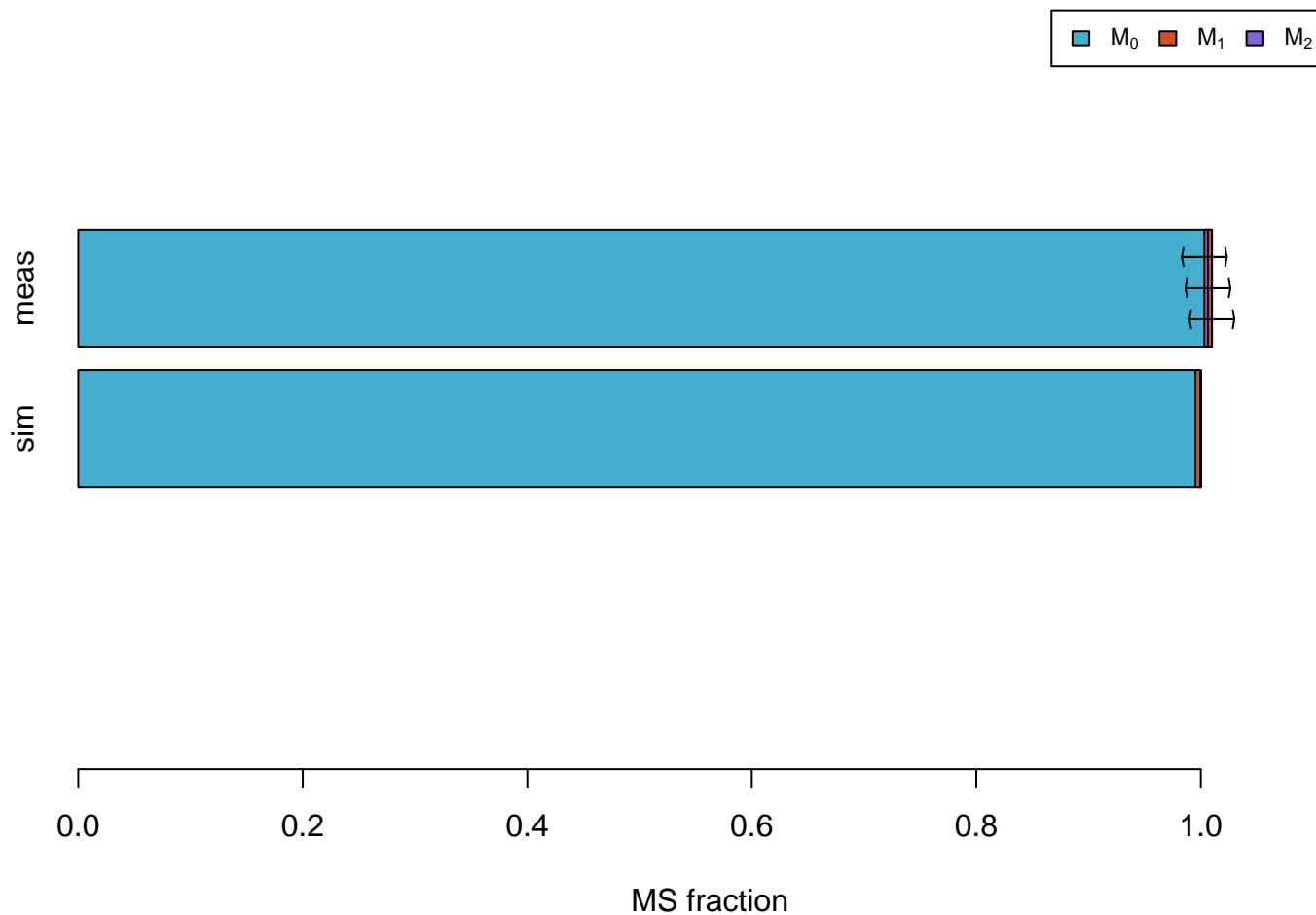
# Ile #011111



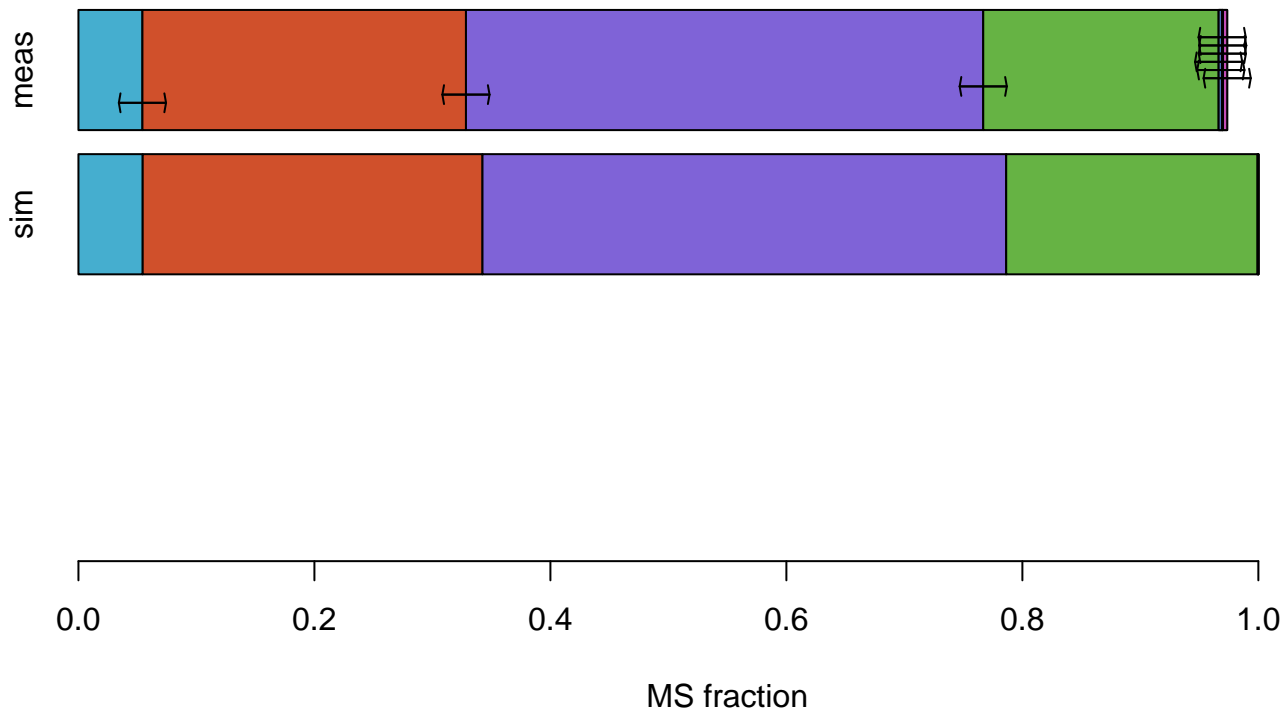
# Leu #011111



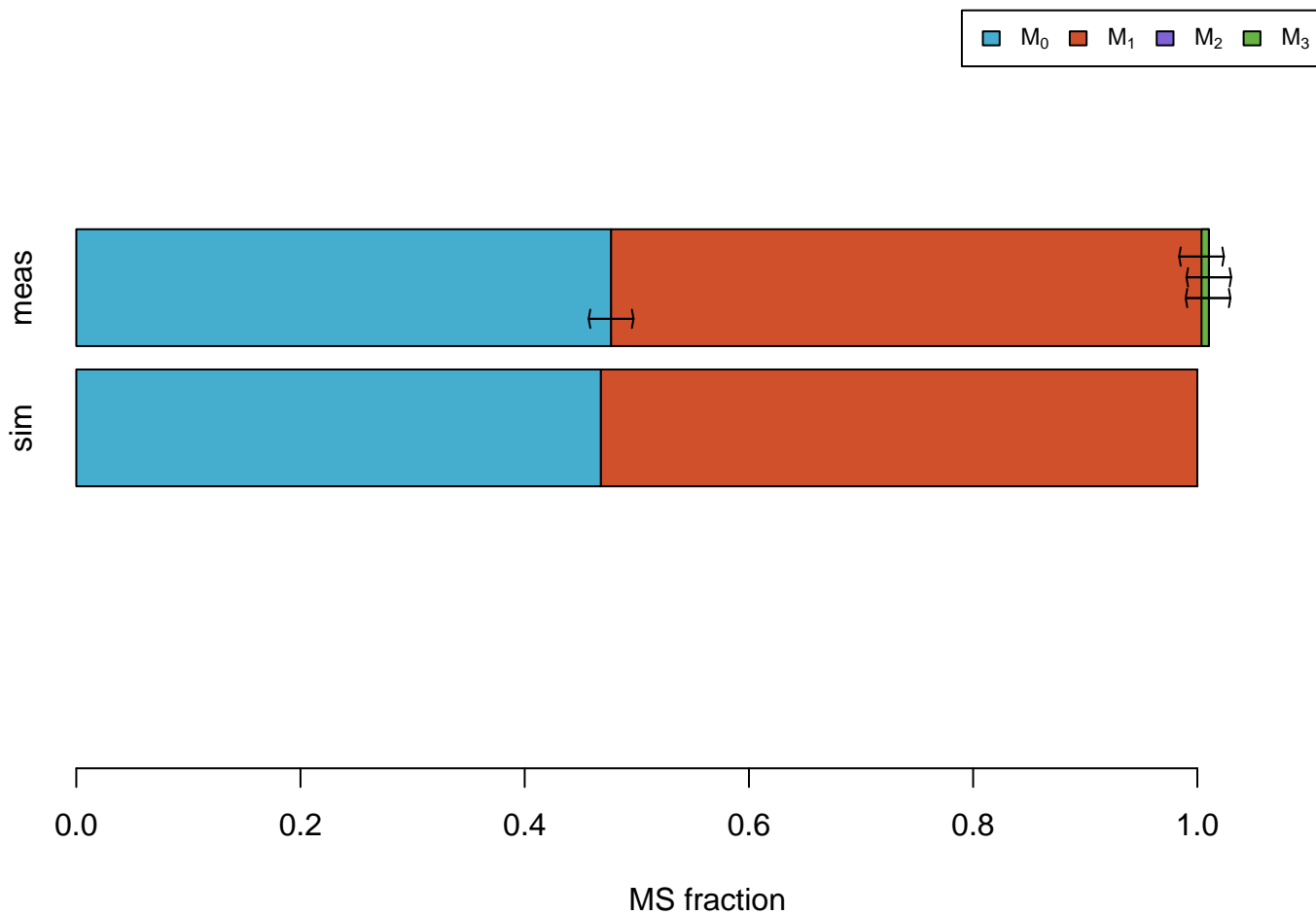
# Phe #110000000



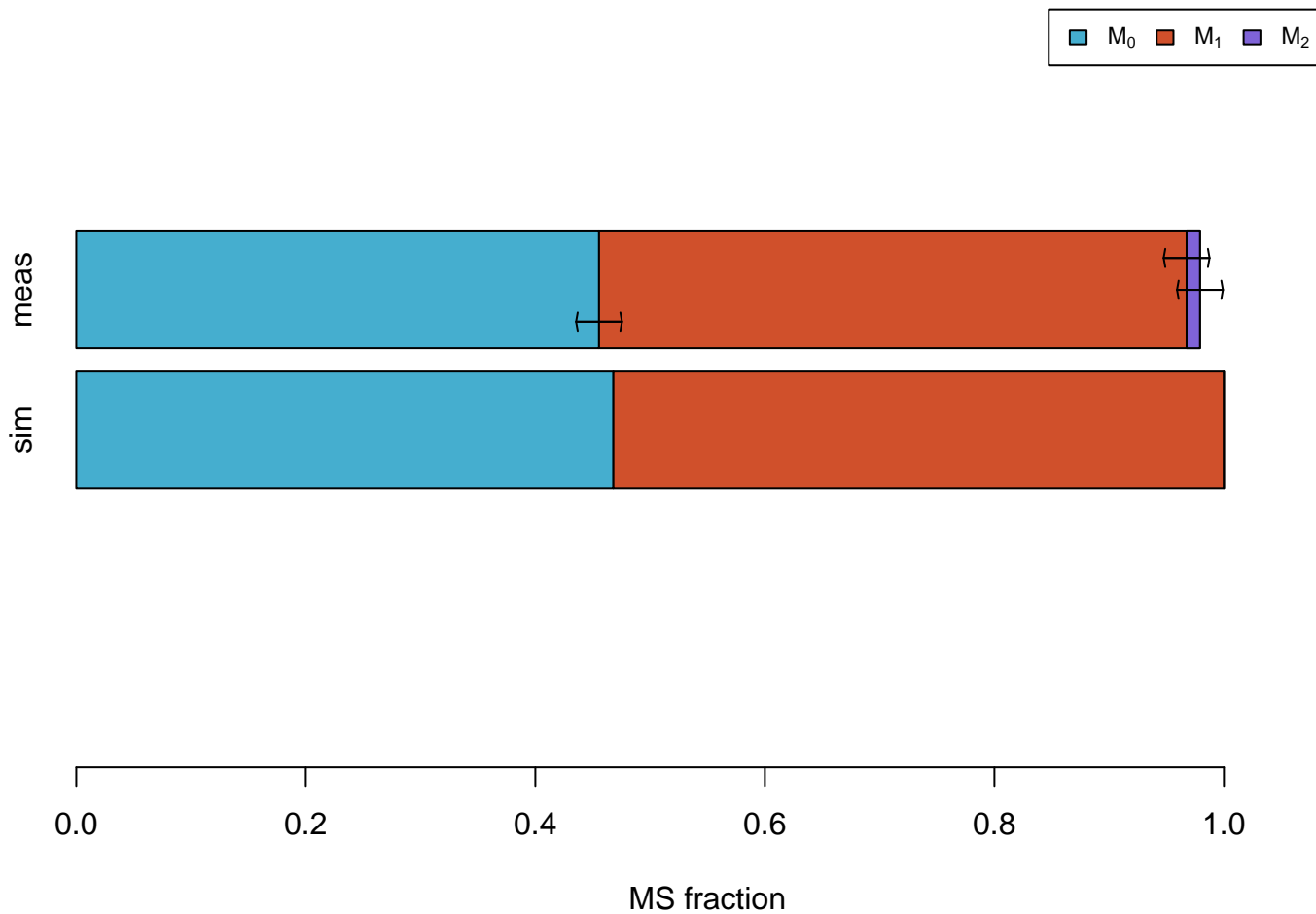
# Phe #011111111



# Ser

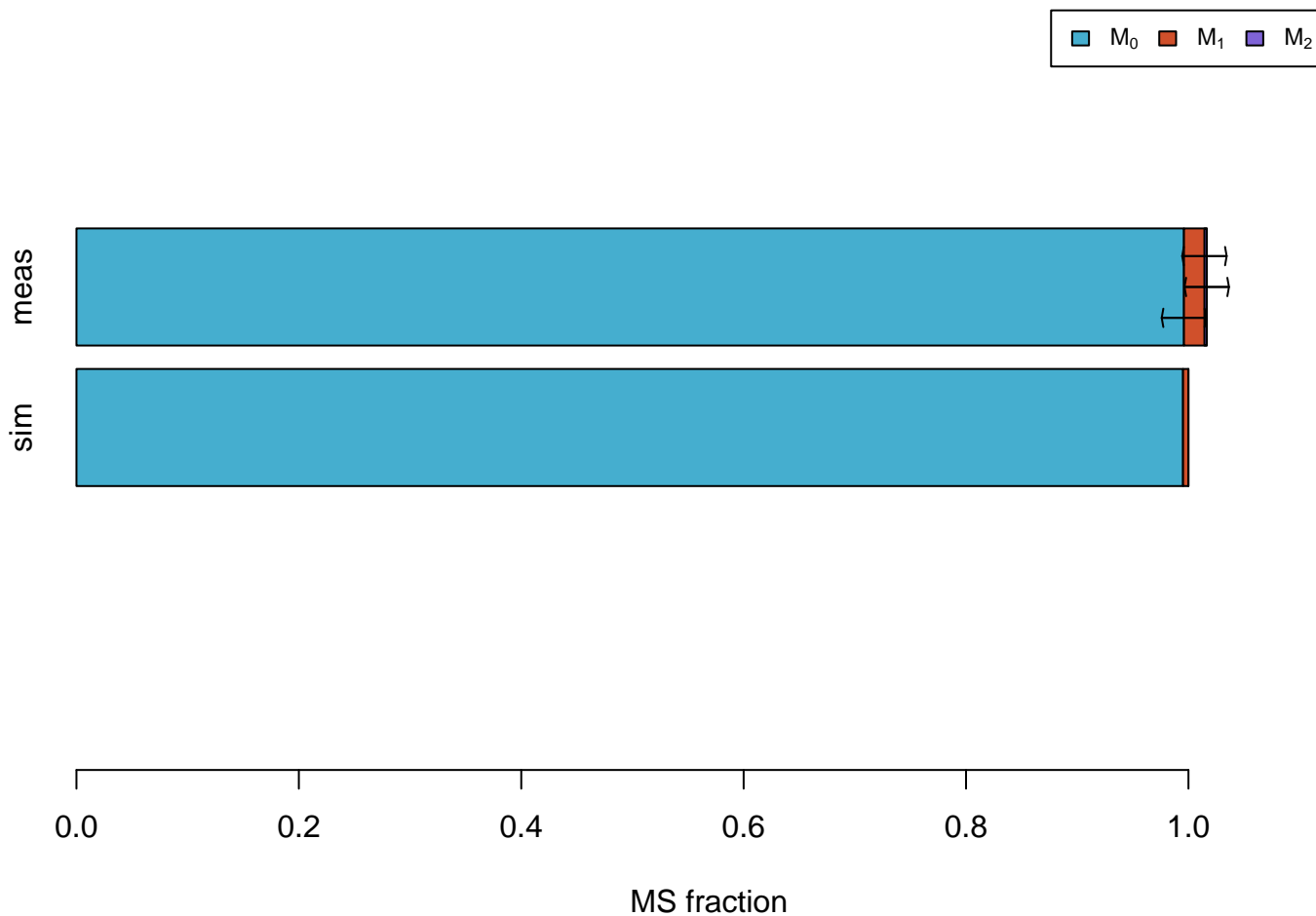


# Ser #011





# Tyr #110000000



Val



meas

sim



MS fraction

Val #01111



MS fraction

MS simulations

# 3PG



MS fraction

**Ac**



sim



0.0

0.2

0.4

0.6

0.8

1.0

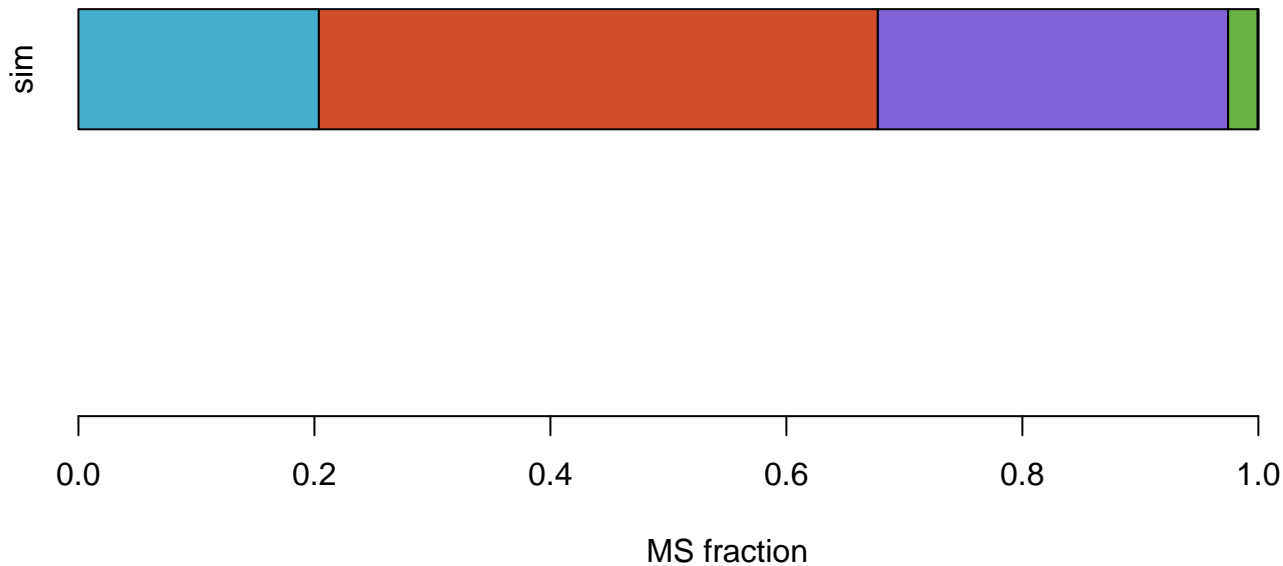
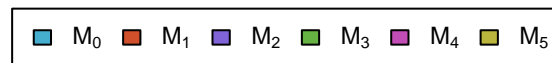
MS fraction

# AcCoA



MS fraction

# AKG



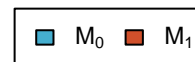


# Asn



MS fraction

# CO2

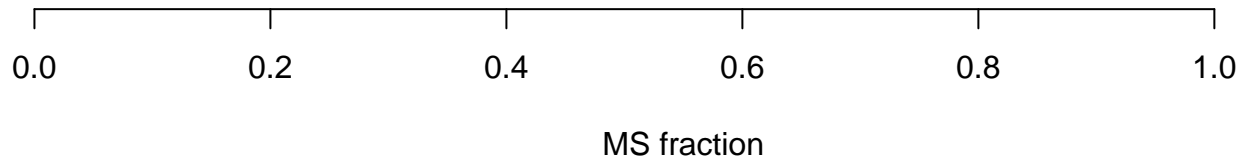


sim



MS fraction

# Cys



# DHAP



MS fraction

# E4P



MS fraction

# FTHF



sim



MS fraction

# Fum



MS fraction

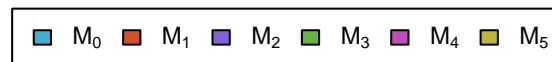
# GAP



MS fraction



Gln



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

# Glyox



sim



MS fraction

# Mal



MS fraction

# MEETHF



sim



0.0

0.2

0.4

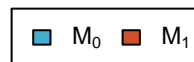
0.6

0.8

1.0

MS fraction

# METHF



sim



MS fraction

# OAC



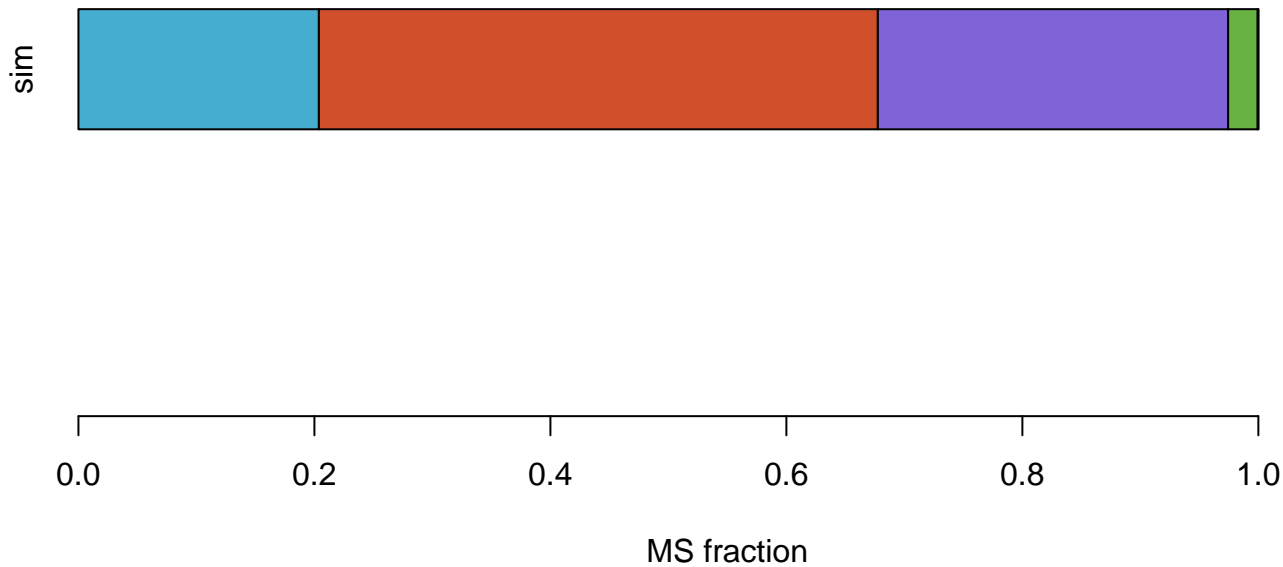
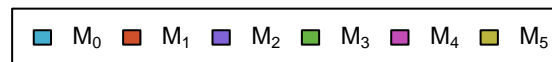
MS fraction

# PEP



MS fraction

Pro





# Pyr



MS fraction

# Suc



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

# SucCoA



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

# TA-C3



sim



MS fraction

Thr



sim



MS fraction

# TK-C2



sim



MS fraction