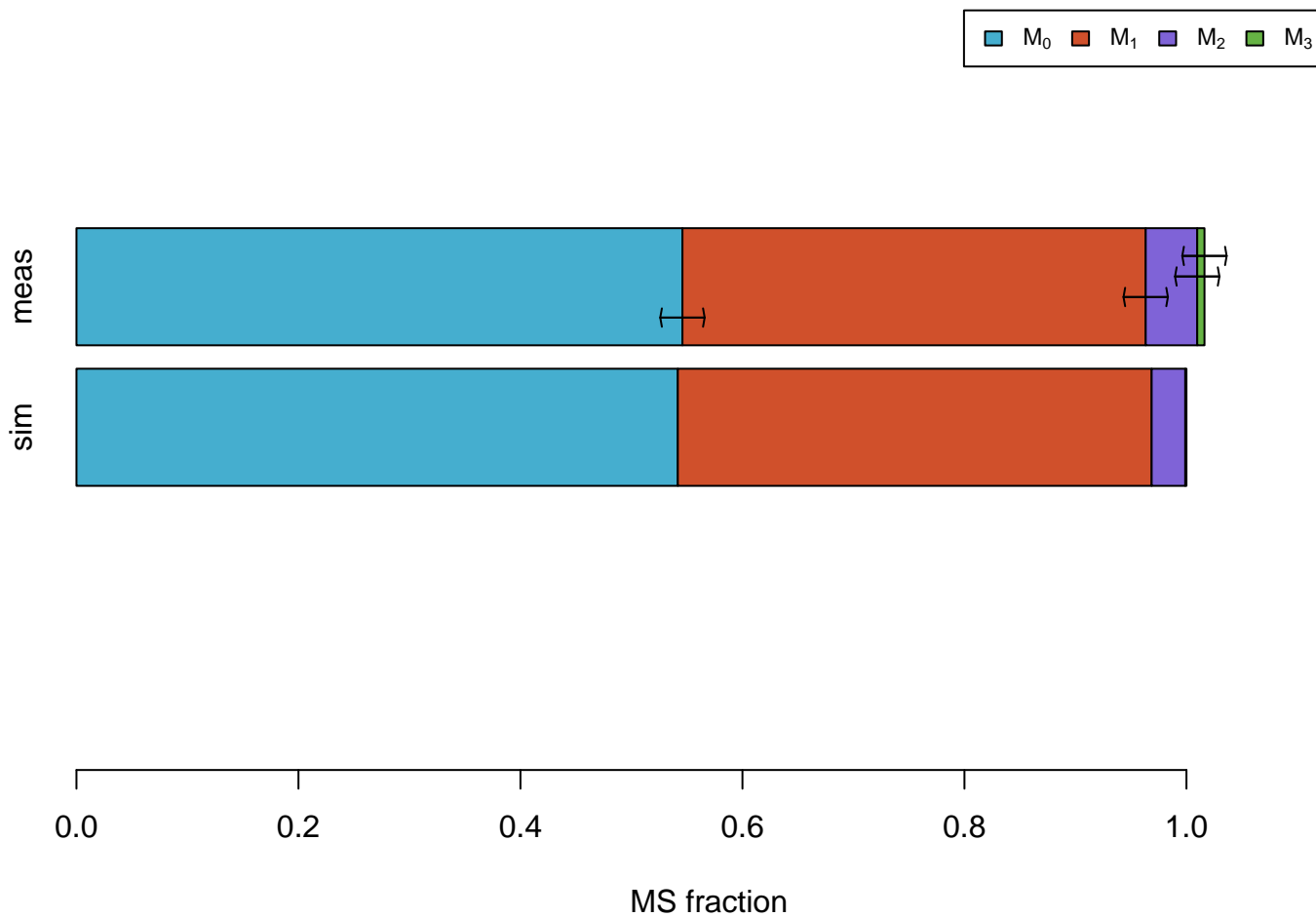
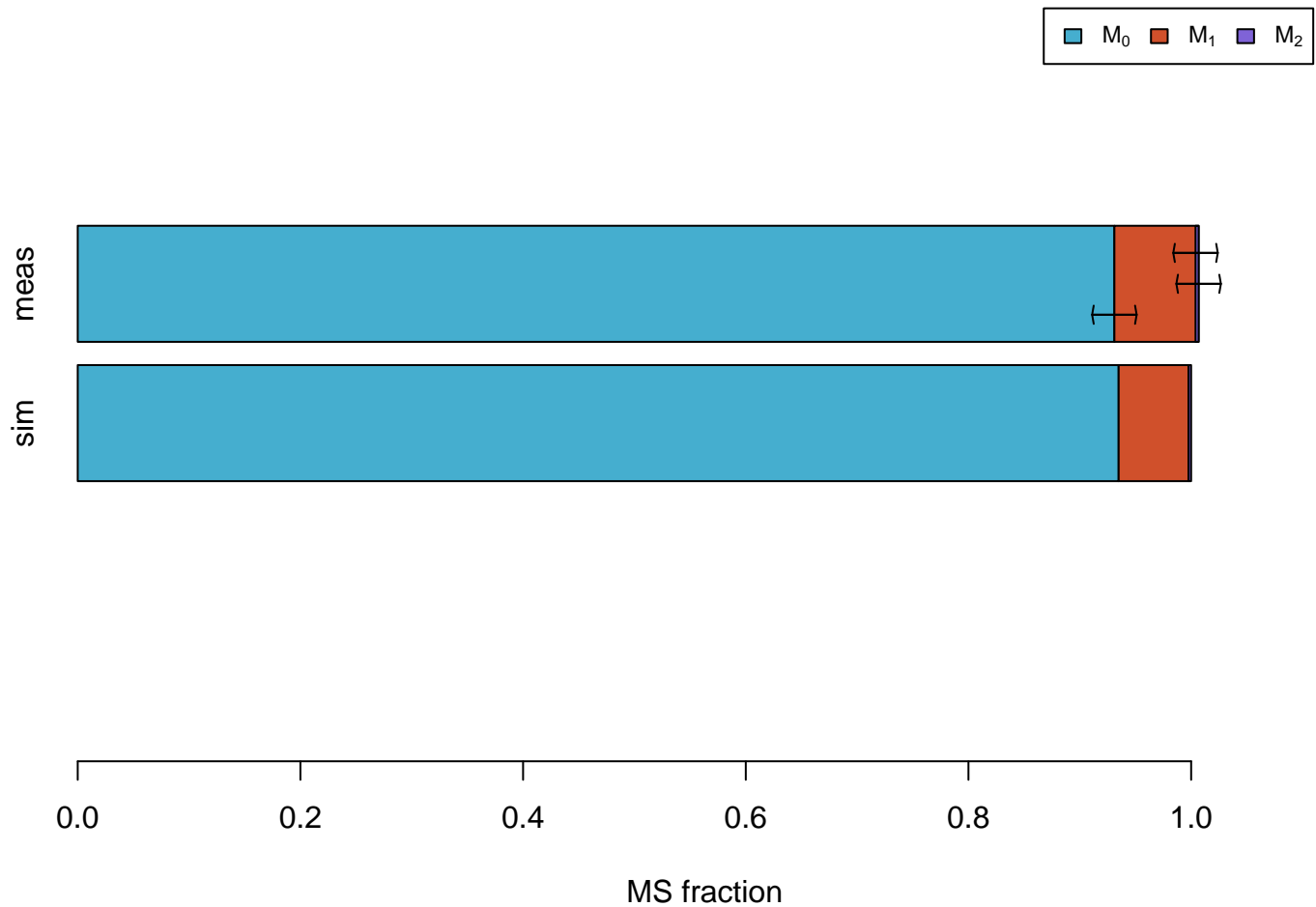


MS measurements  
(error bars= $\pm 2 \cdot \text{dev}$ )

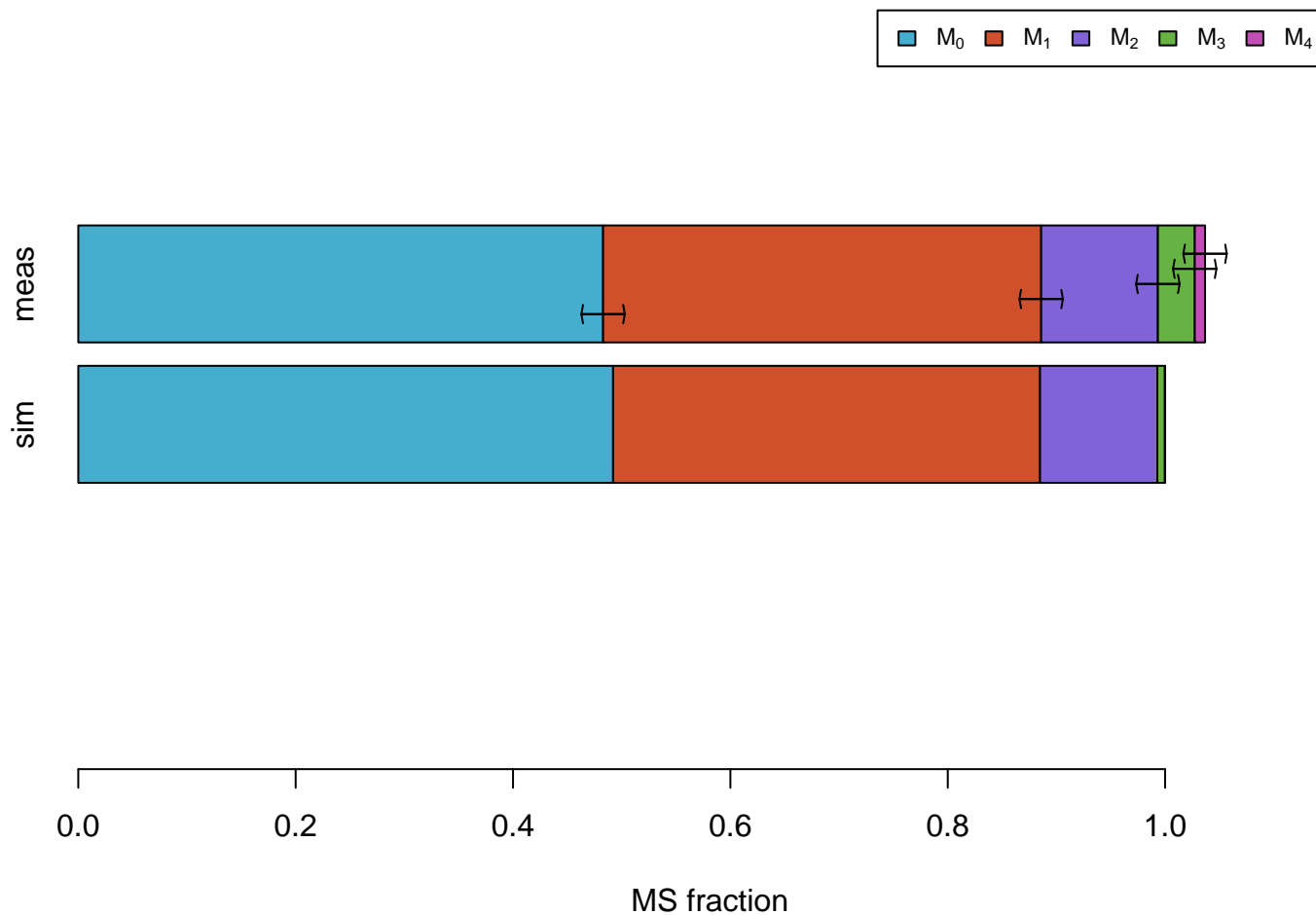
# Ala



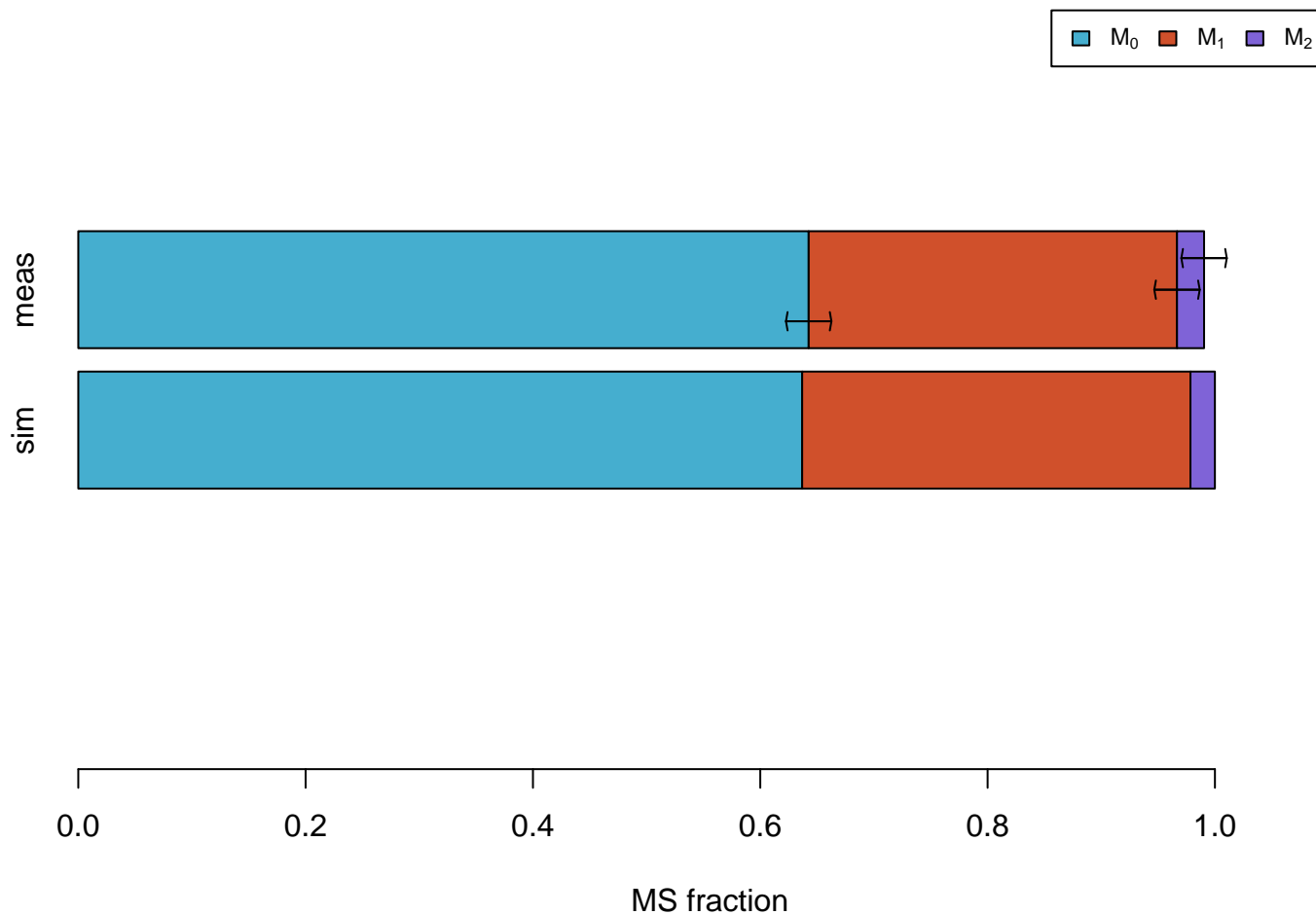
# Ala #011



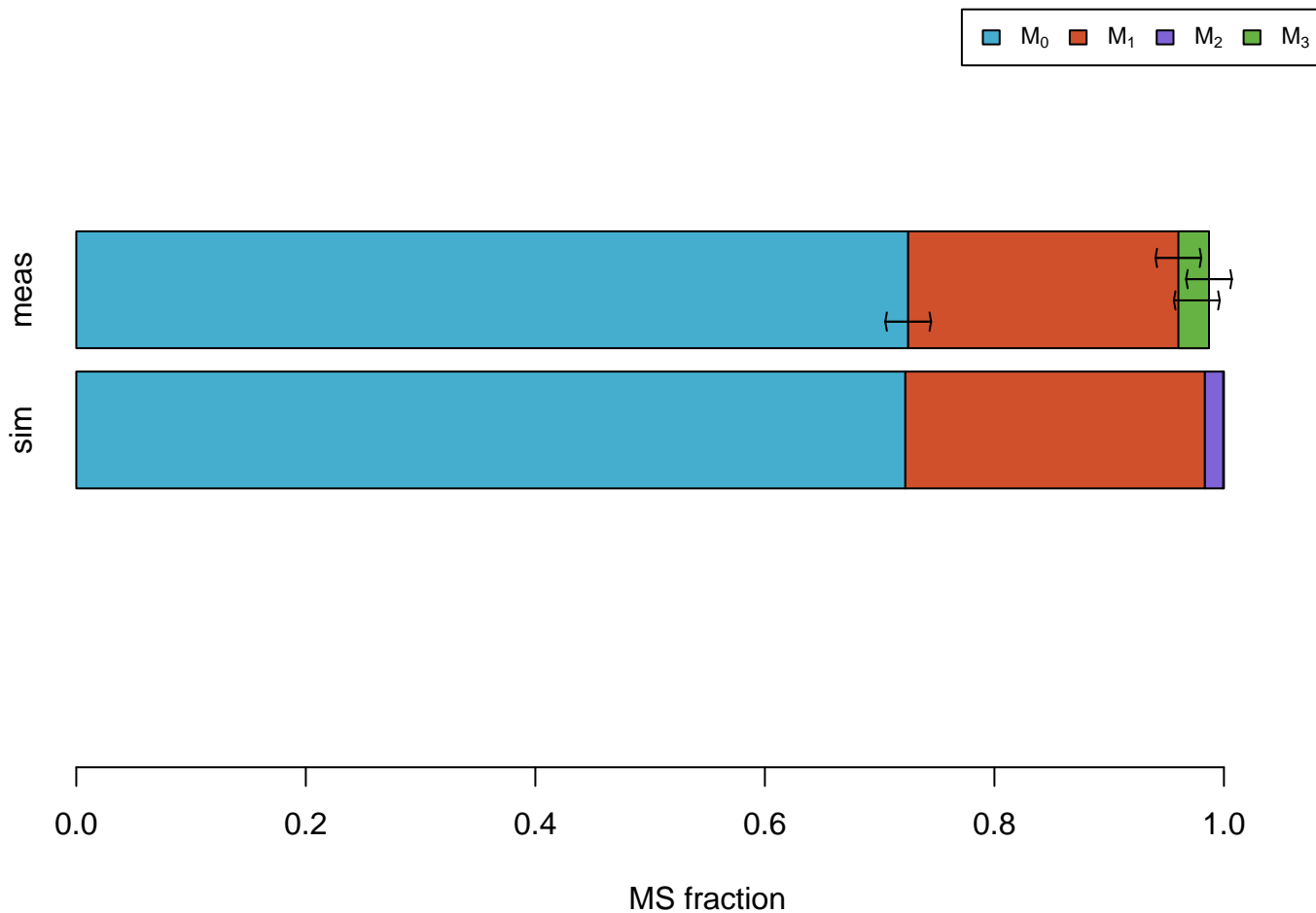
# Asp



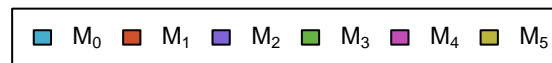
# Asp #1100



# Asp #0111



# Glu



meas

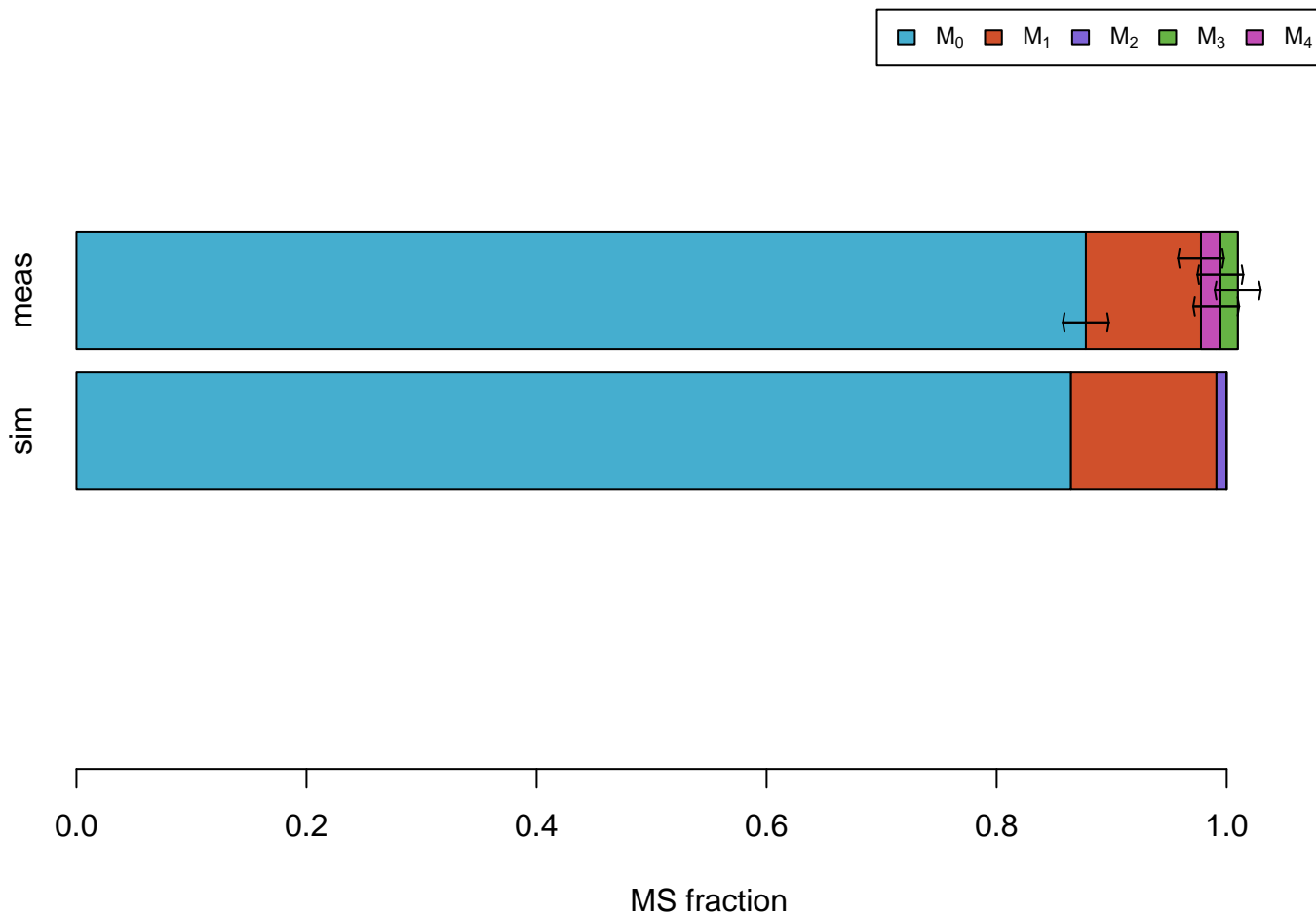
sim



MS fraction

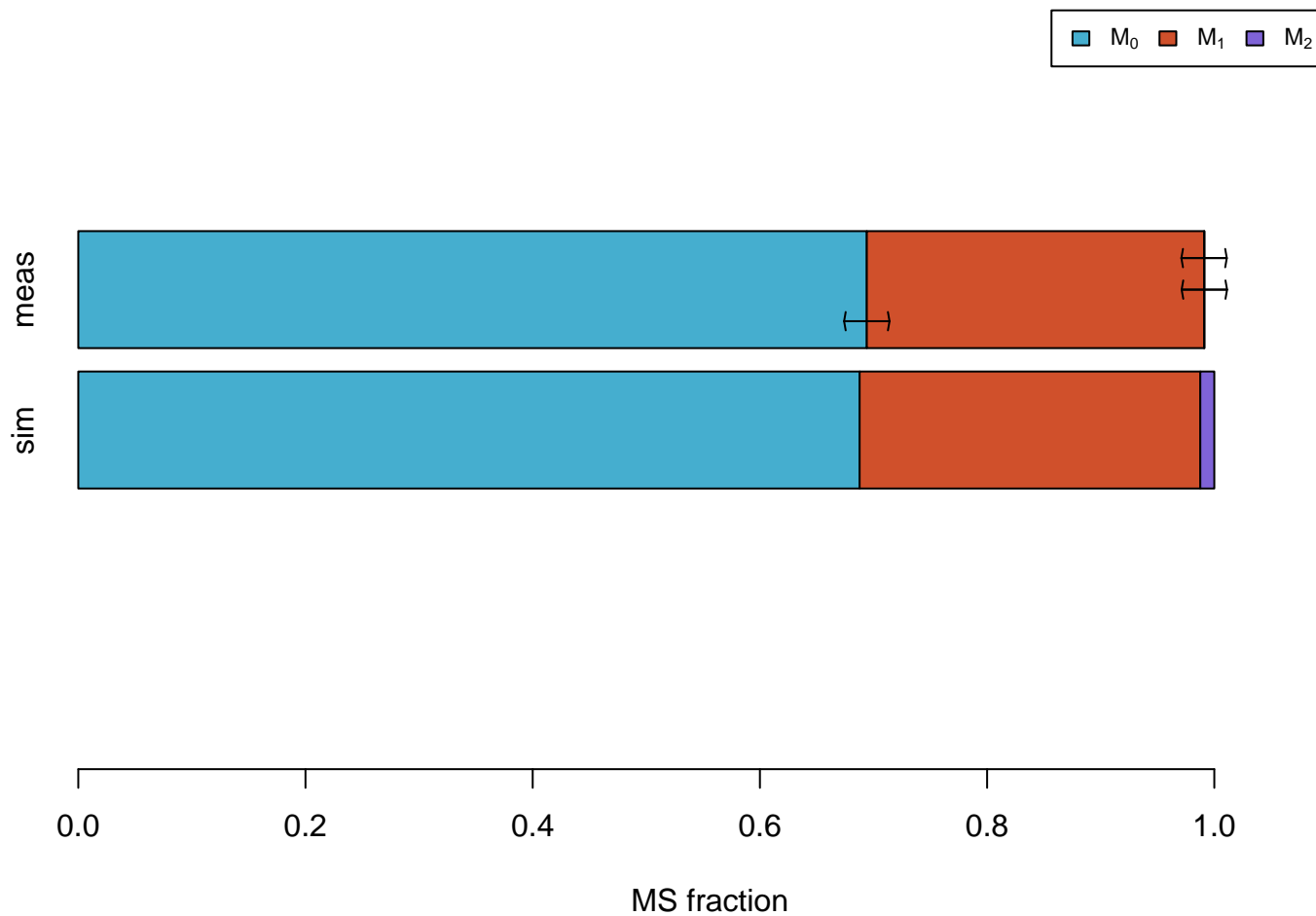


# Glu #01111

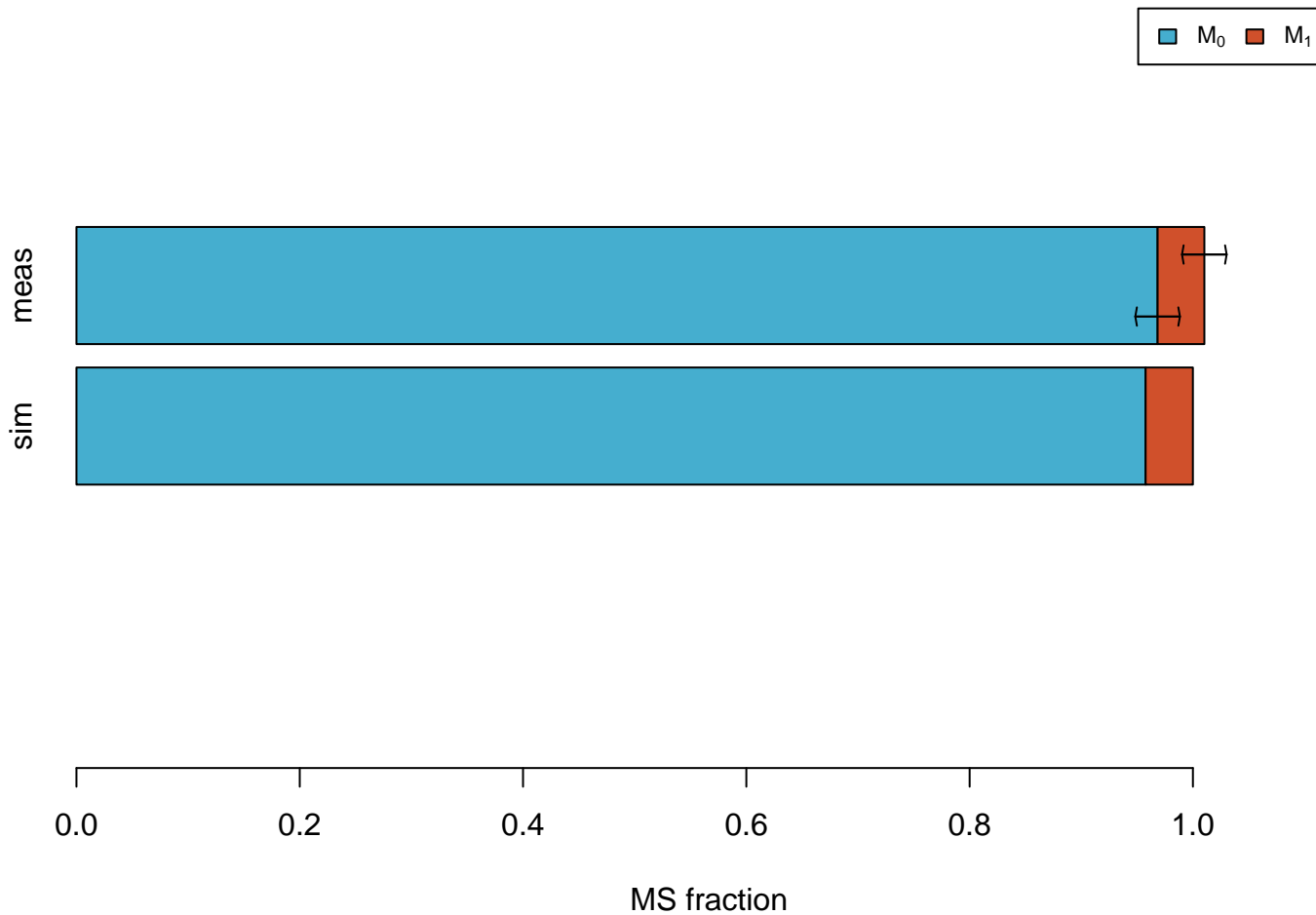




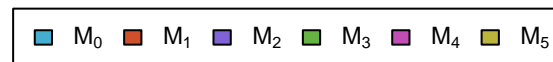
# Gly



# Gly #01

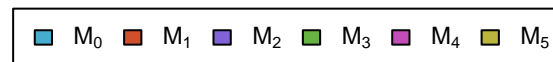


# Ile #011111



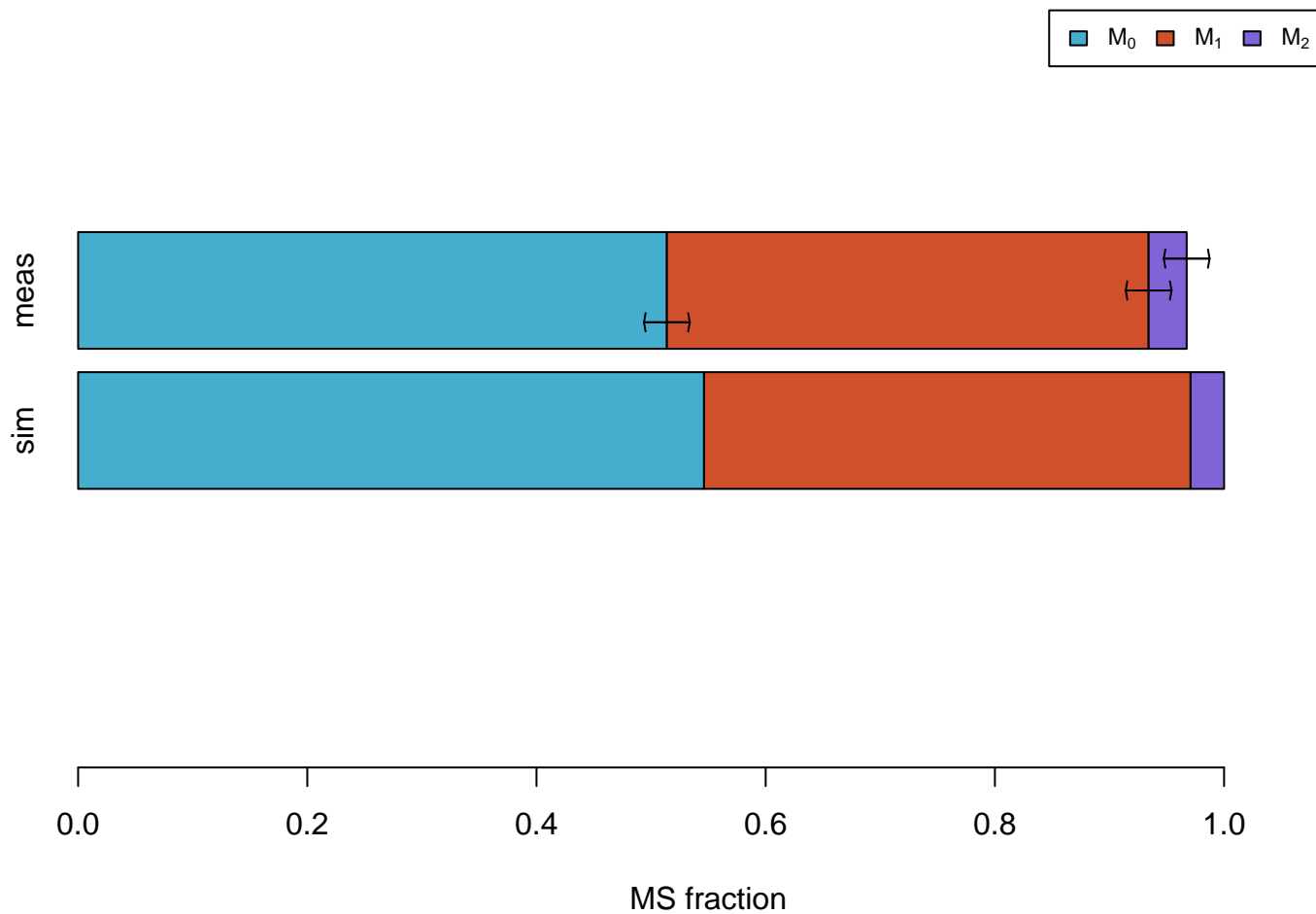
MS fraction

# Leu #011111

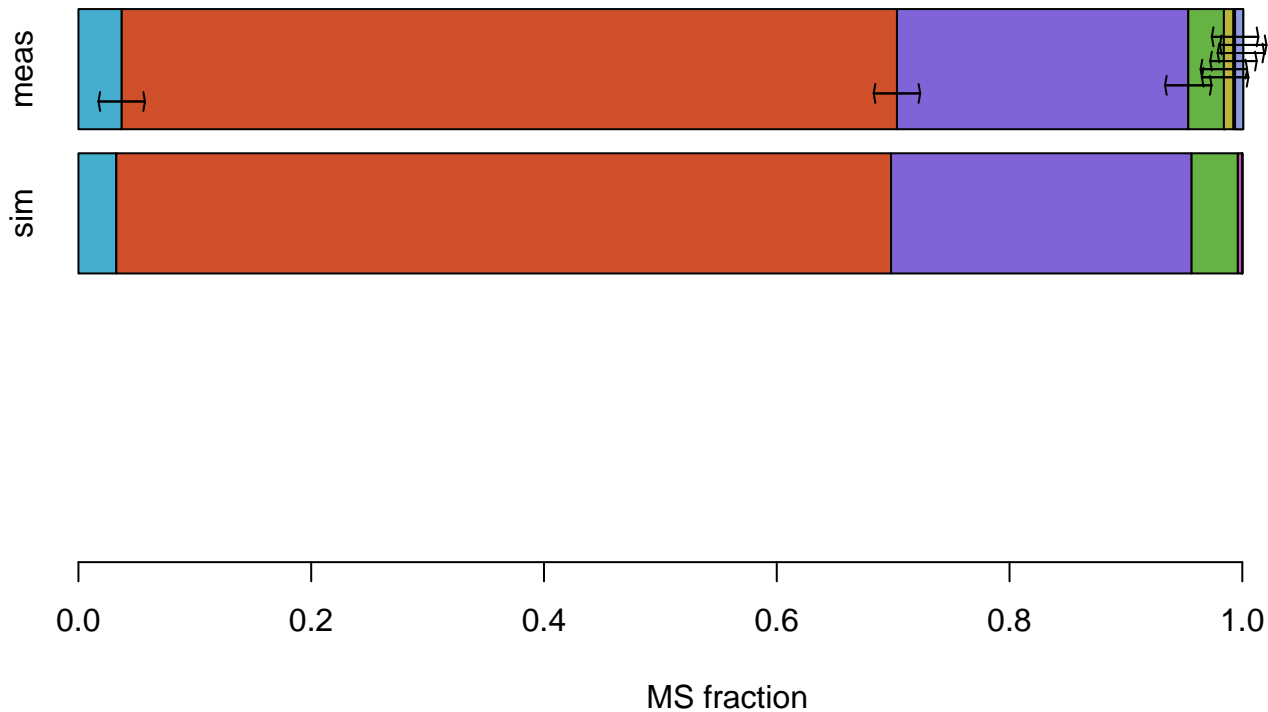


MS fraction

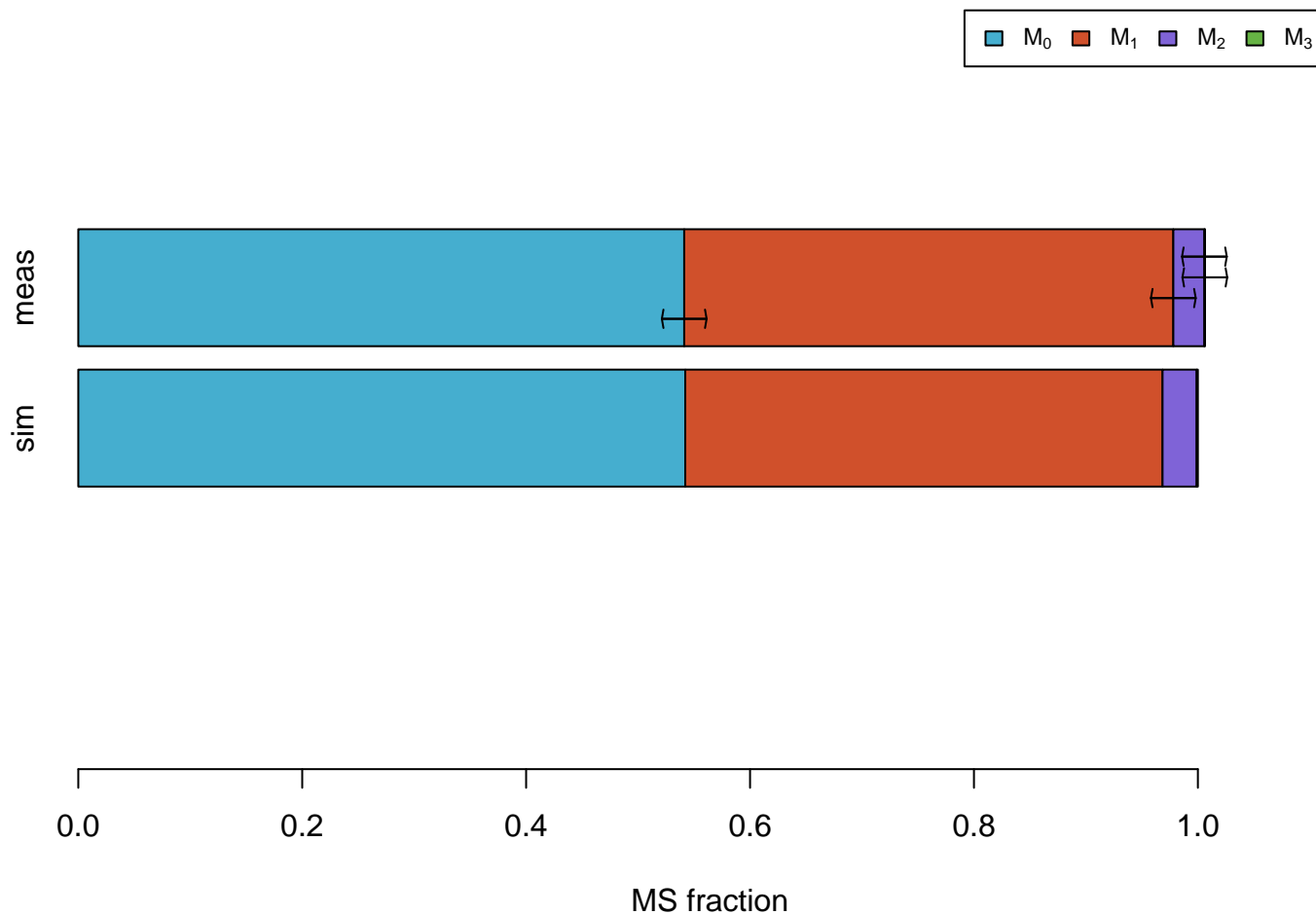
# Phe #110000000



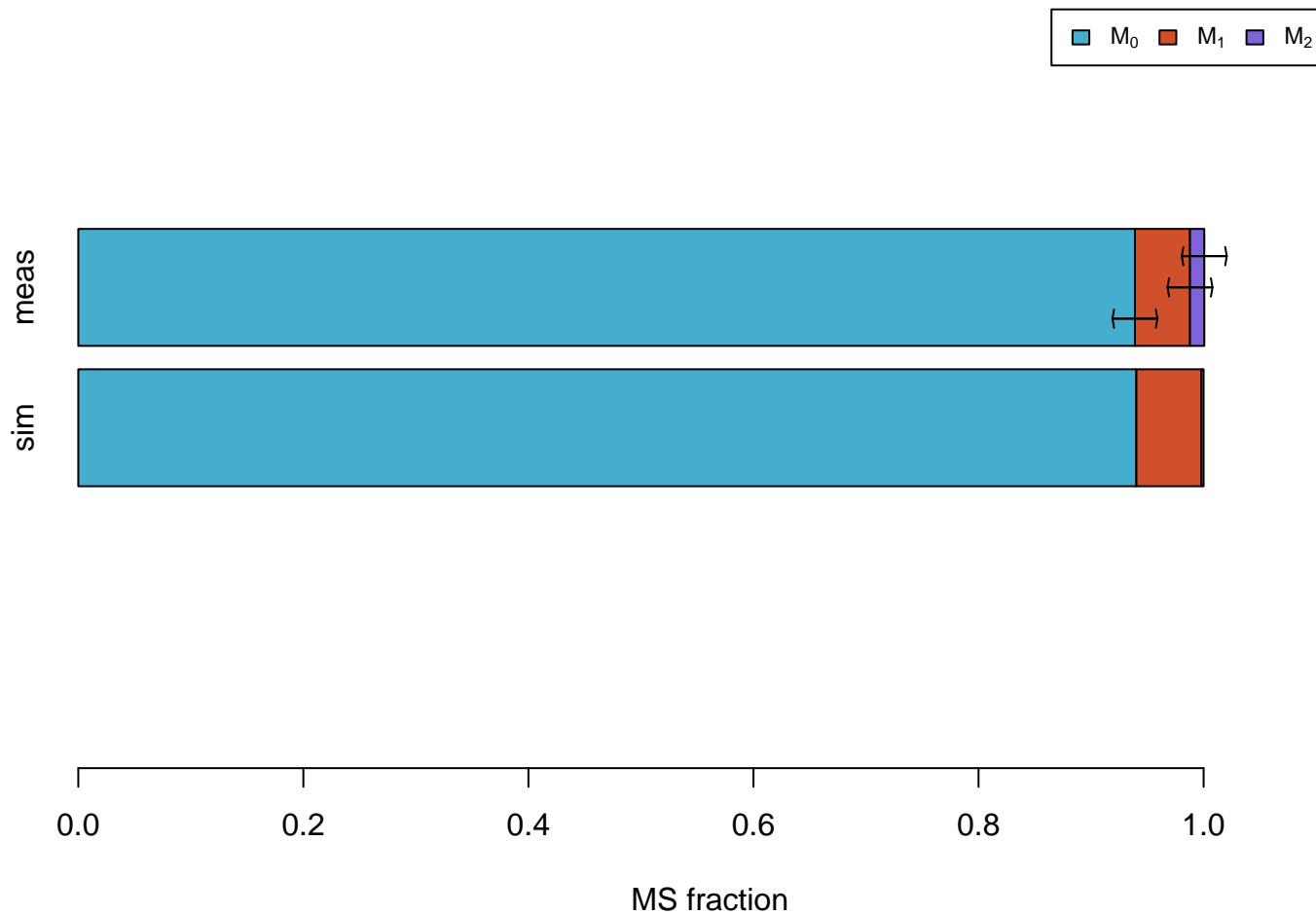
# Phe #011111111



# Ser

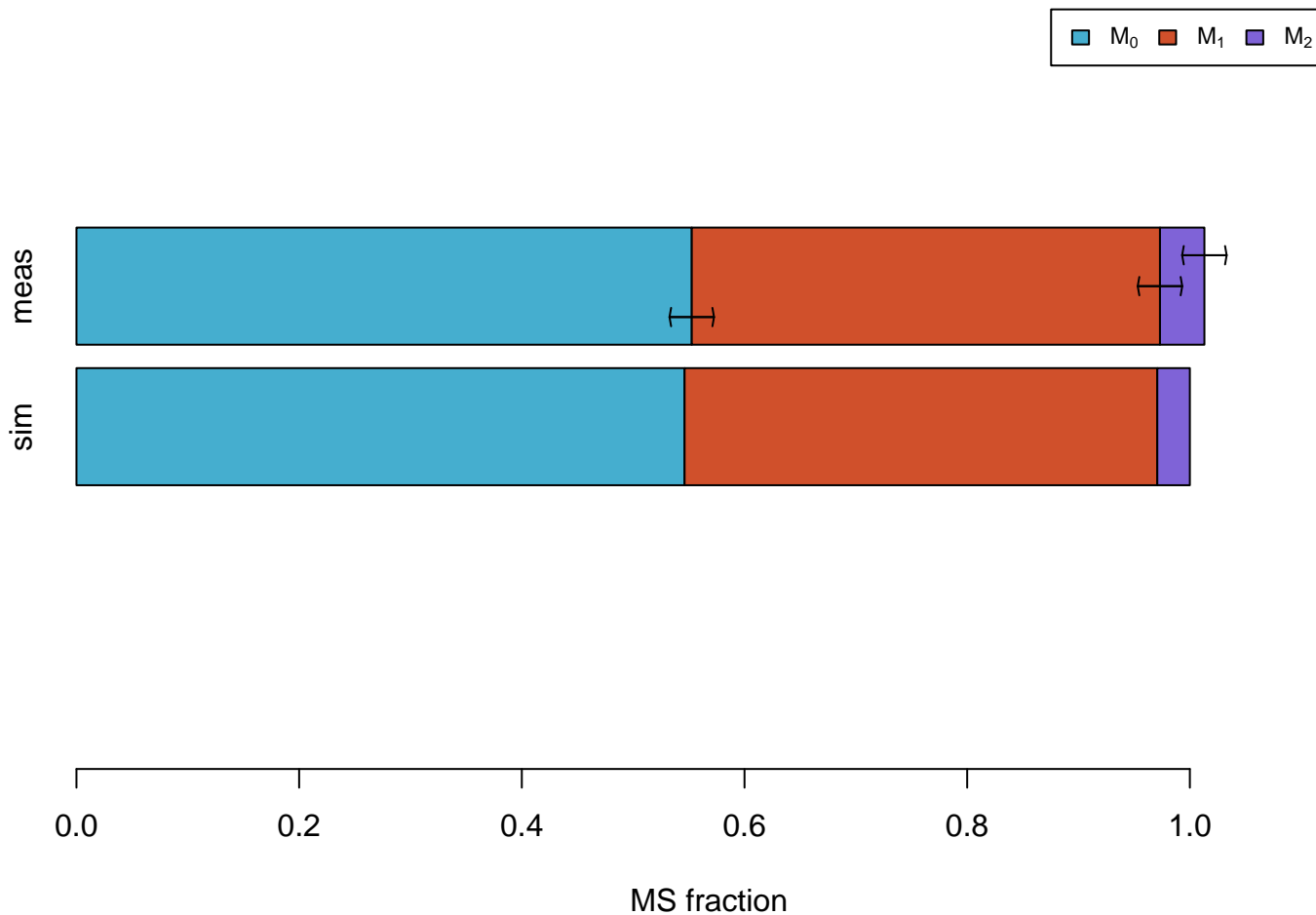


# Ser #011

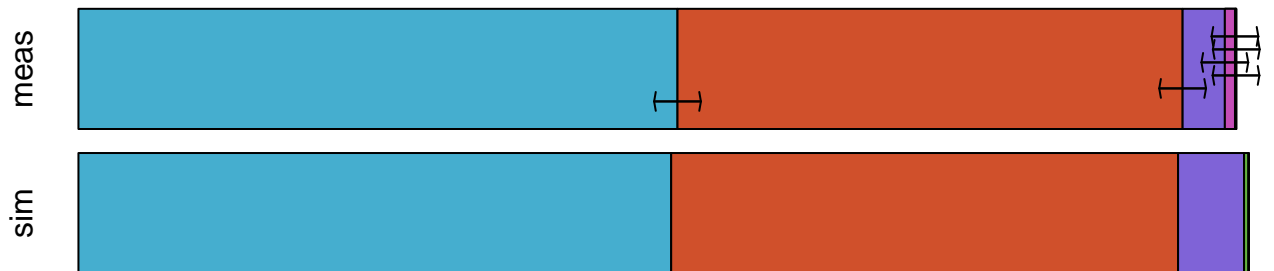
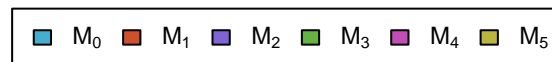




# Tyr #110000000

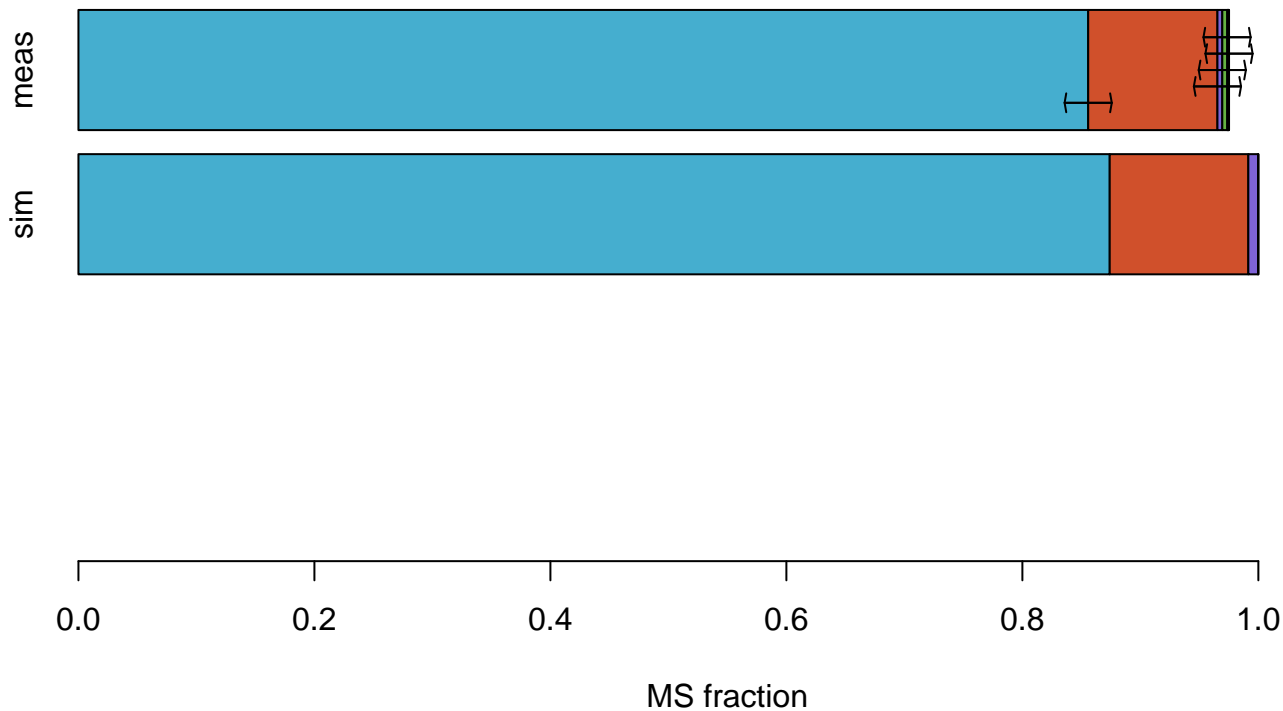


Val



MS fraction

Val #01111

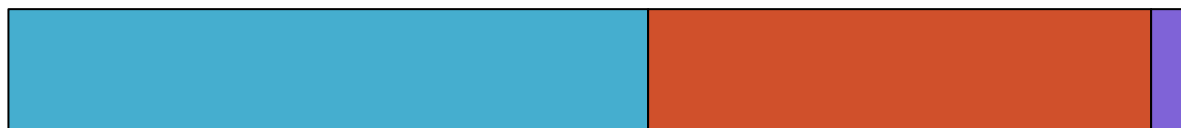


MS simulations

# 3PG



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

**Ac**



sim



MS fraction

# AcCoA

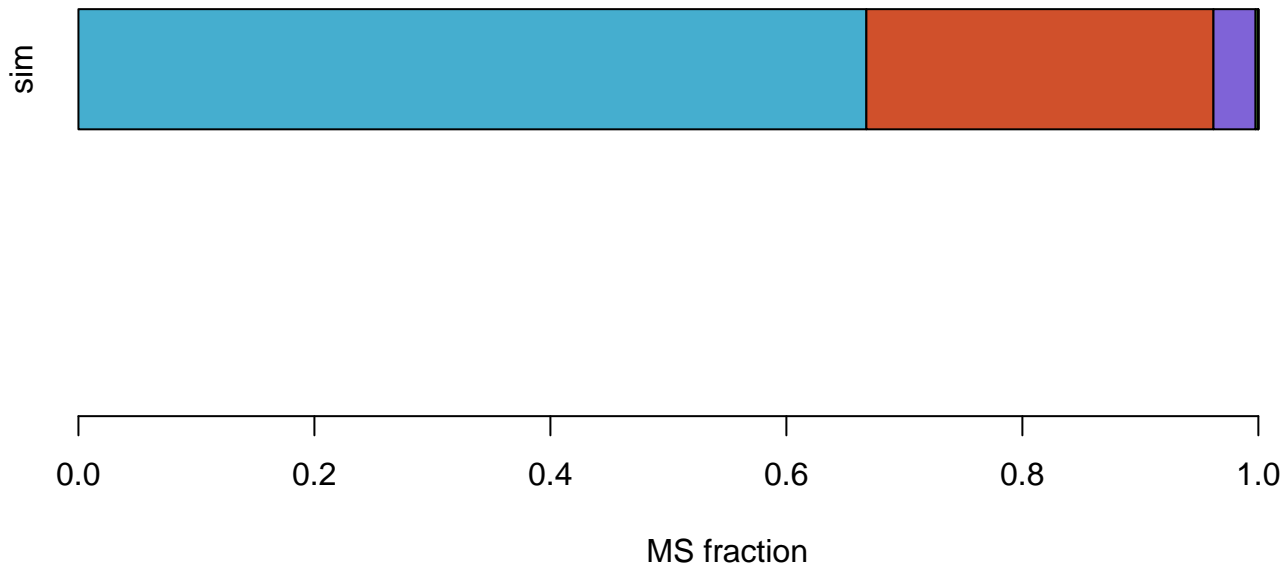


sim



MS fraction

# AKG





# Asn



sim



MS fraction

CO2



sim



0.0

0.2

0.4

0.6

0.8

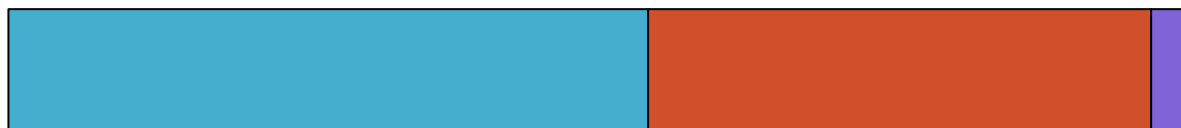
1.0

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



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

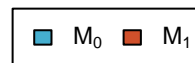
0.6

0.8

1.0

MS fraction

# METHF



sim



MS fraction

# OAC



sim



MS fraction

# PEP

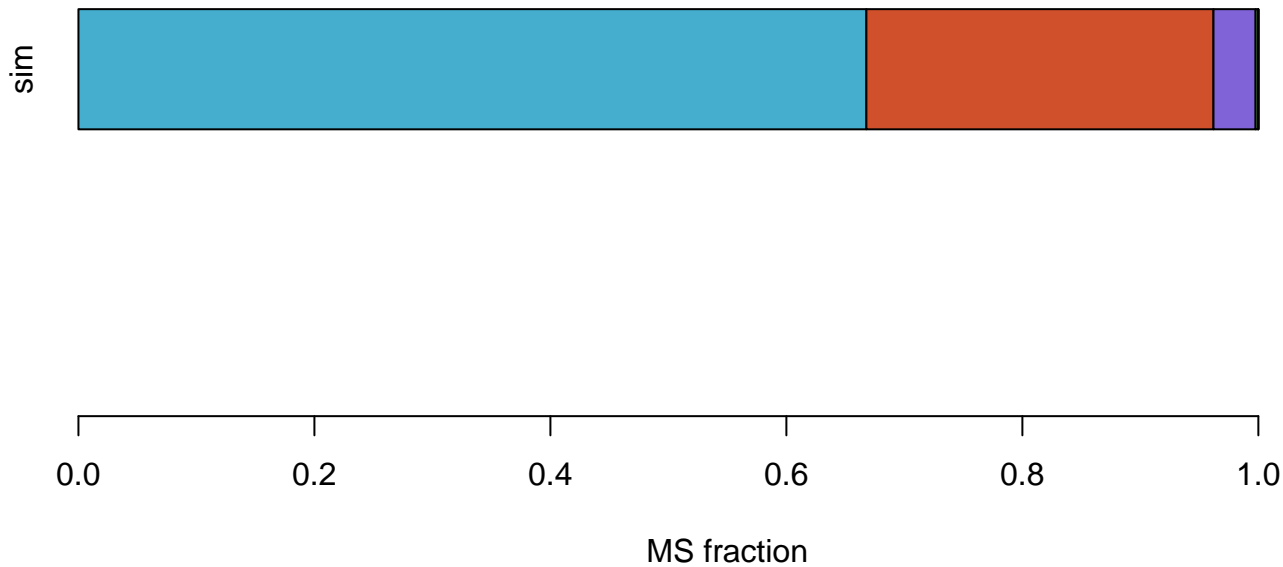


sim



MS fraction

Pro





# Pyr

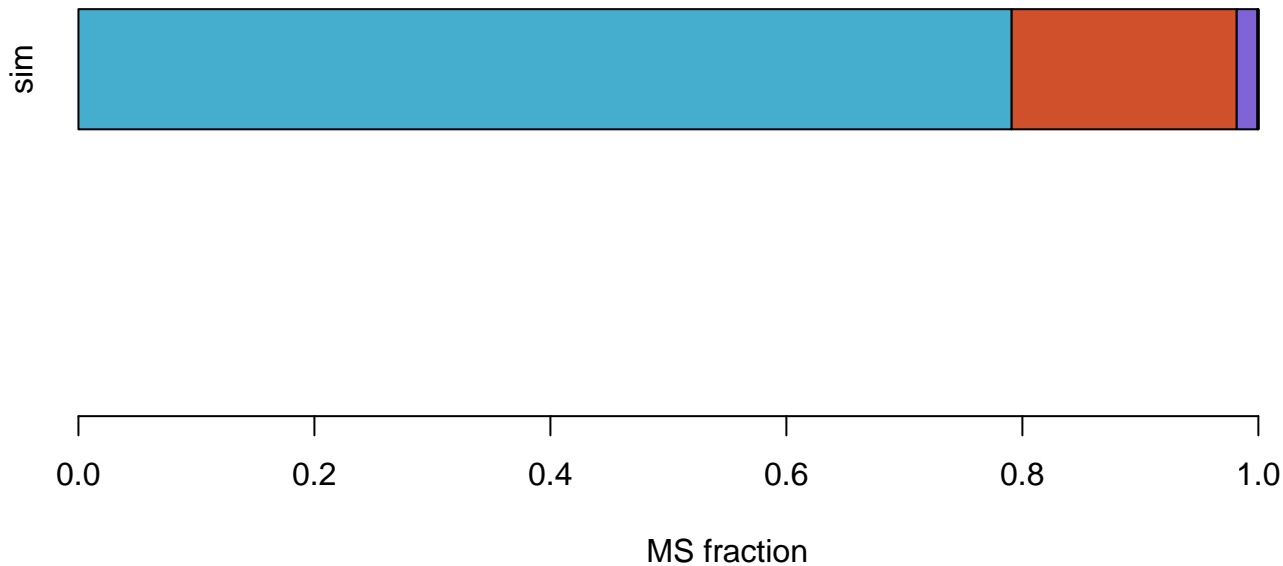


sim



MS fraction

# Suc



# SucCoA



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

# TA-C3



sim



0.0

0.2

0.4

0.6

0.8

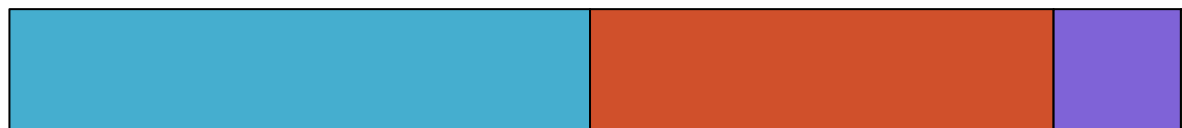
1.0

MS fraction

Thr



sim



MS fraction

# TK-C2



MS fraction