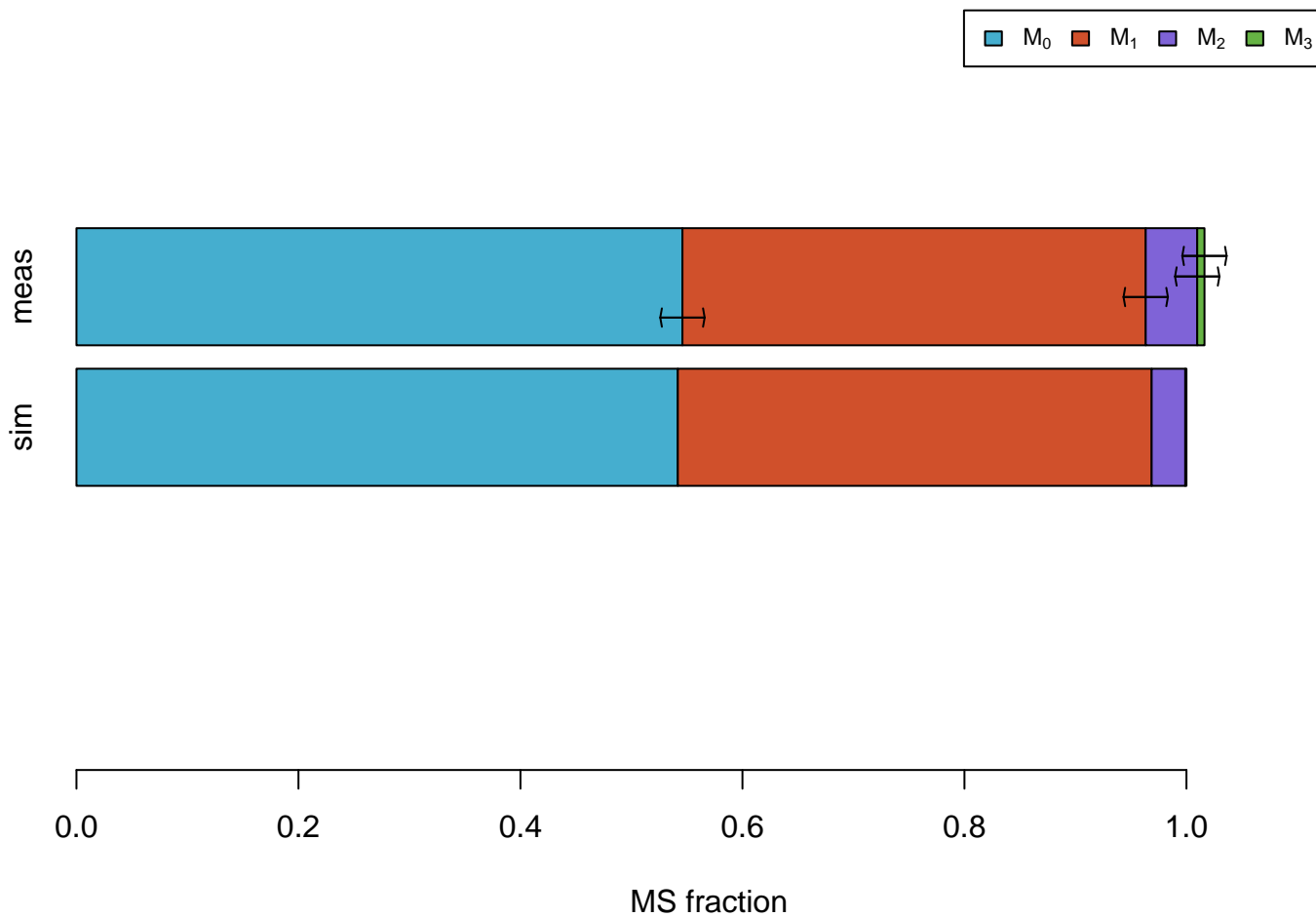
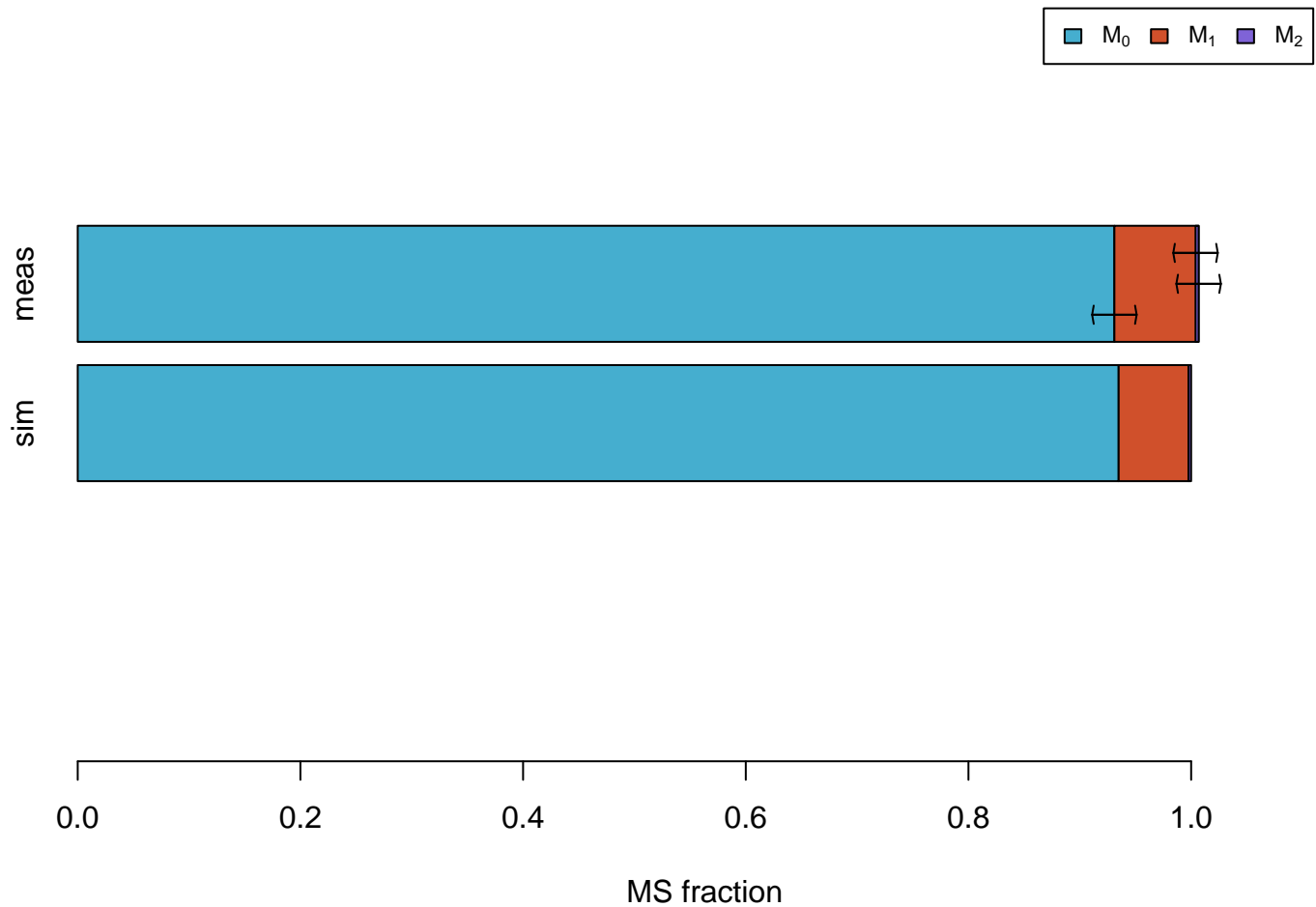


MS measurements  
(error bars= $\pm 2 \cdot \text{dev}$ )

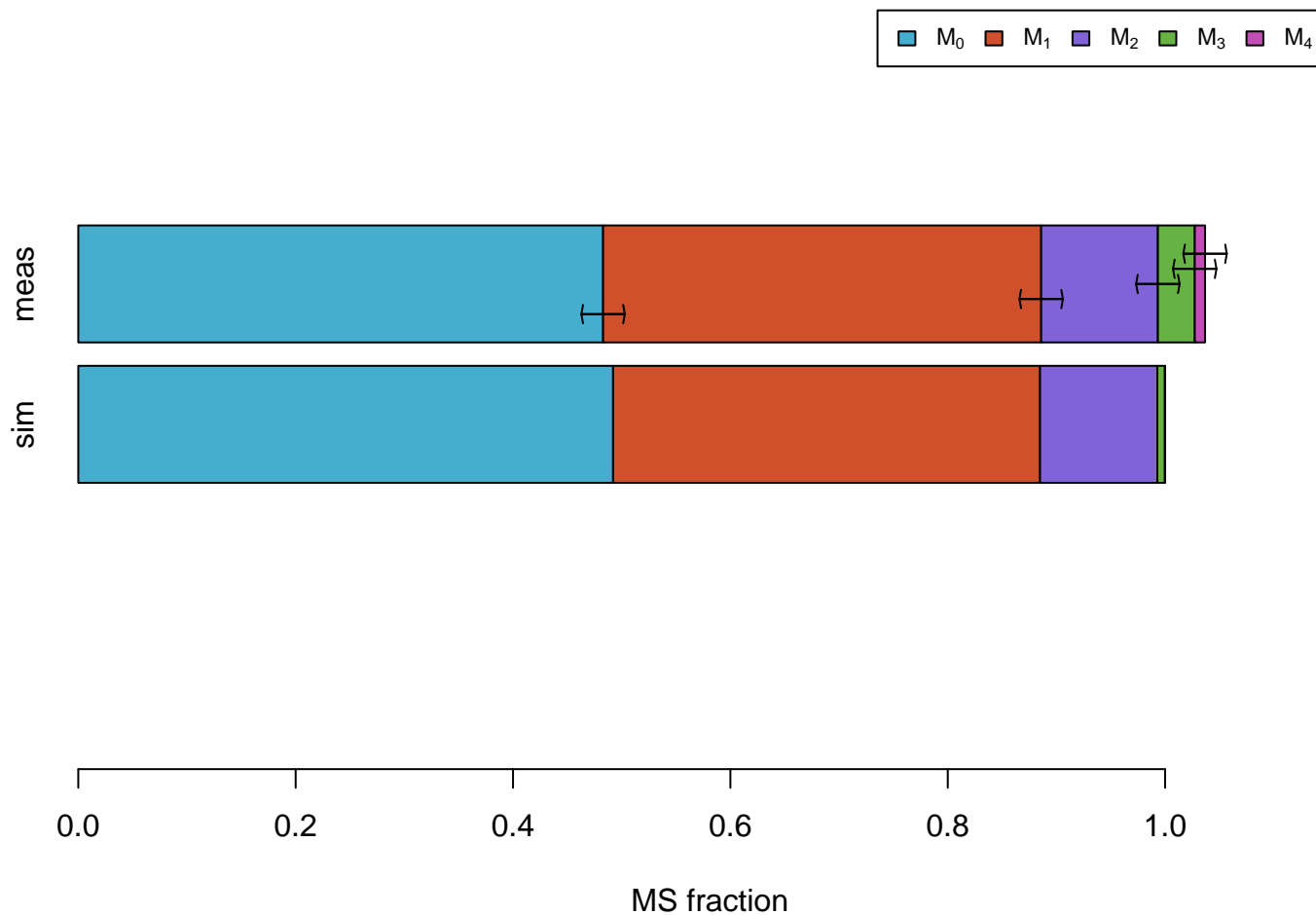
# Ala



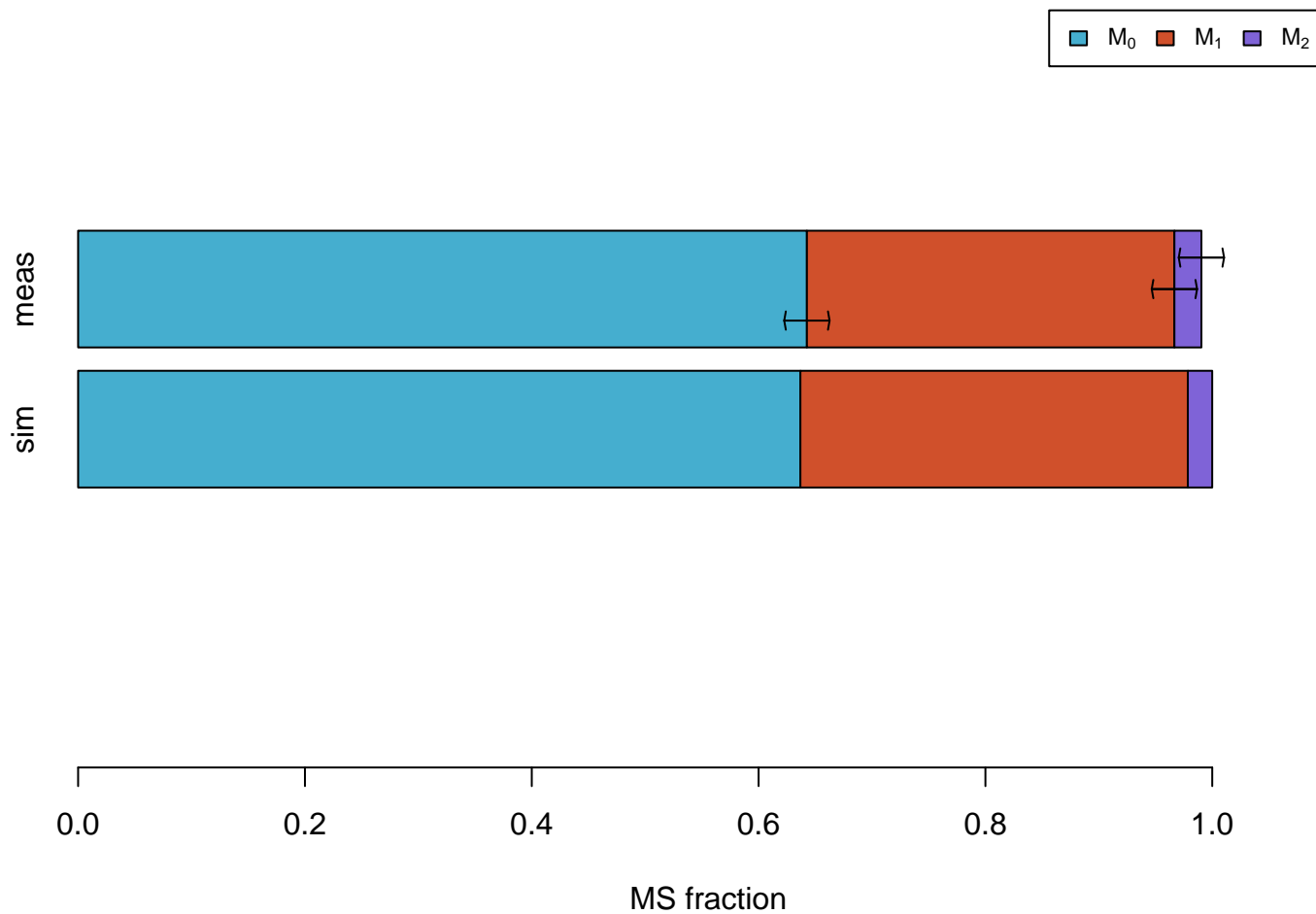
# Ala #011



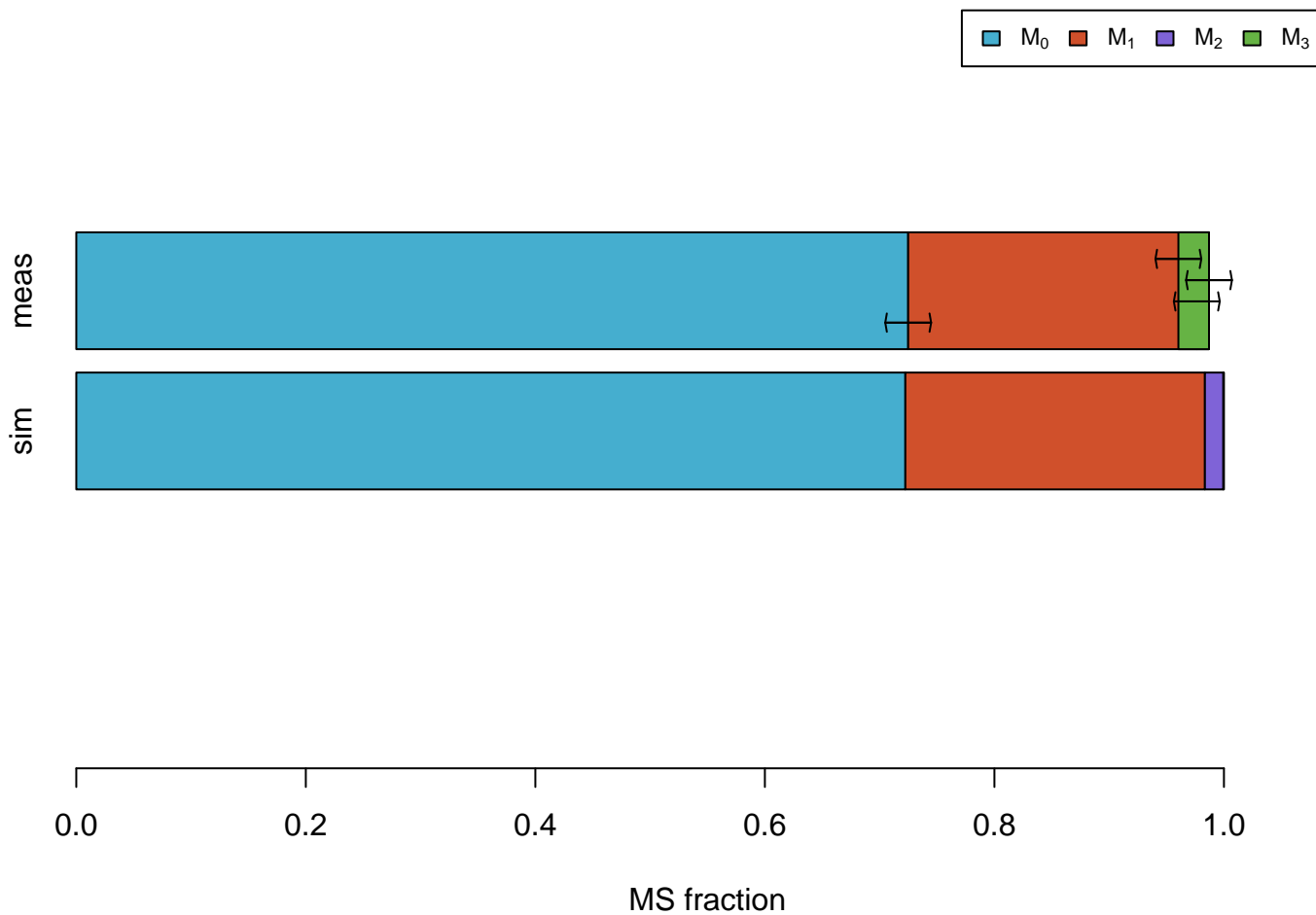
# Asp



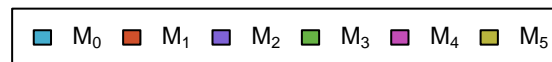
# Asp #1100



# Asp #0111

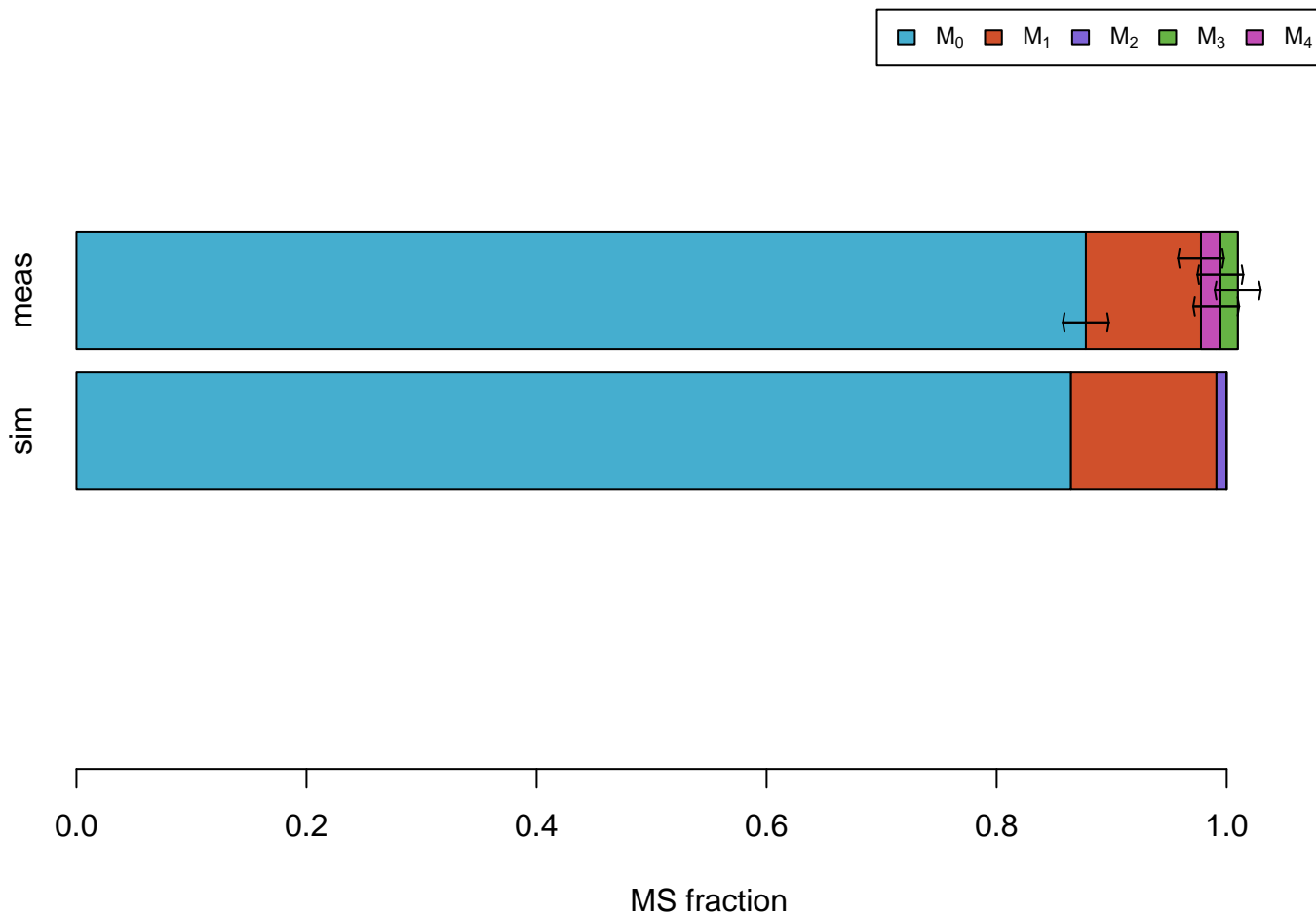


# Glu



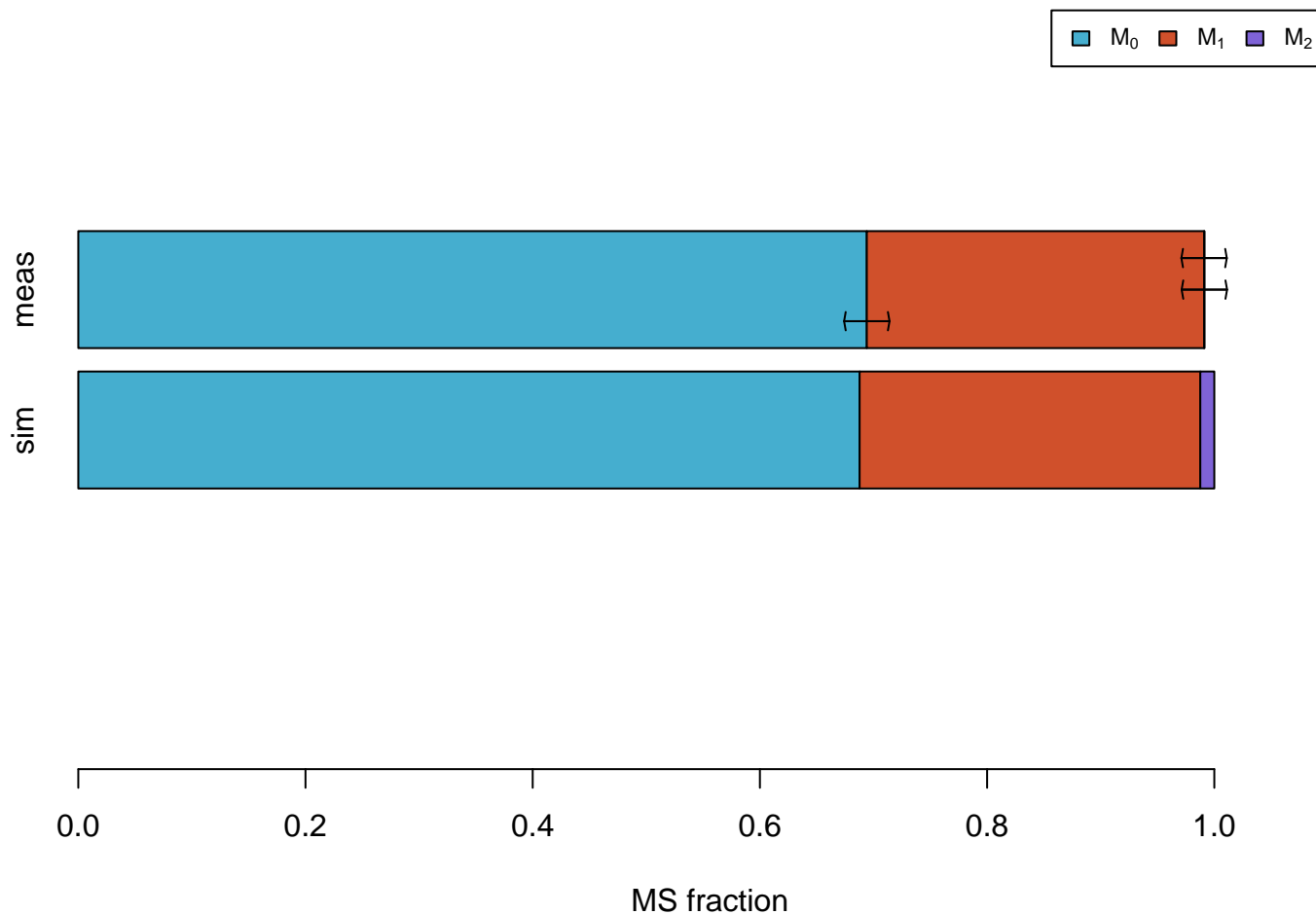
MS fraction

# Glu #01111

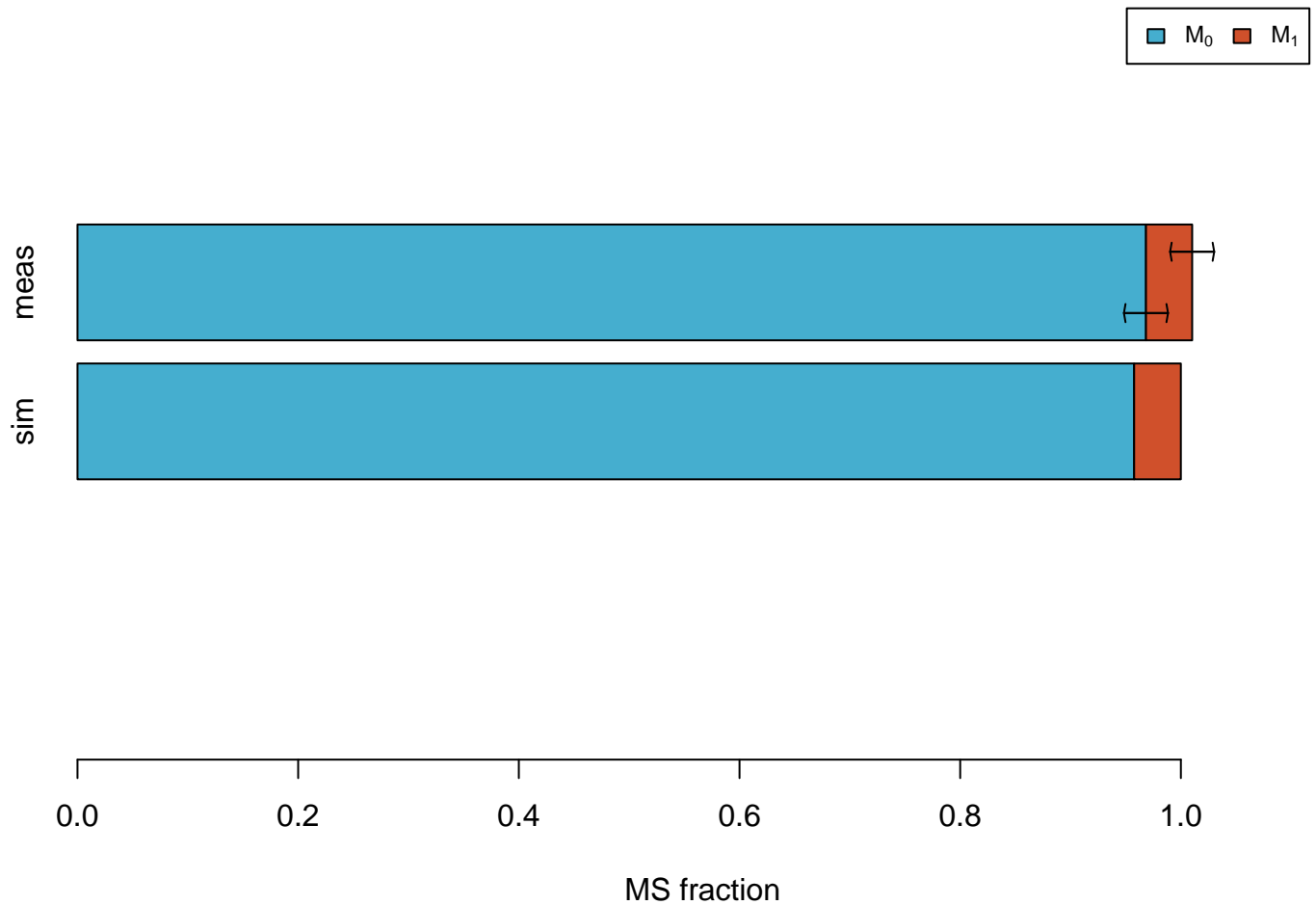




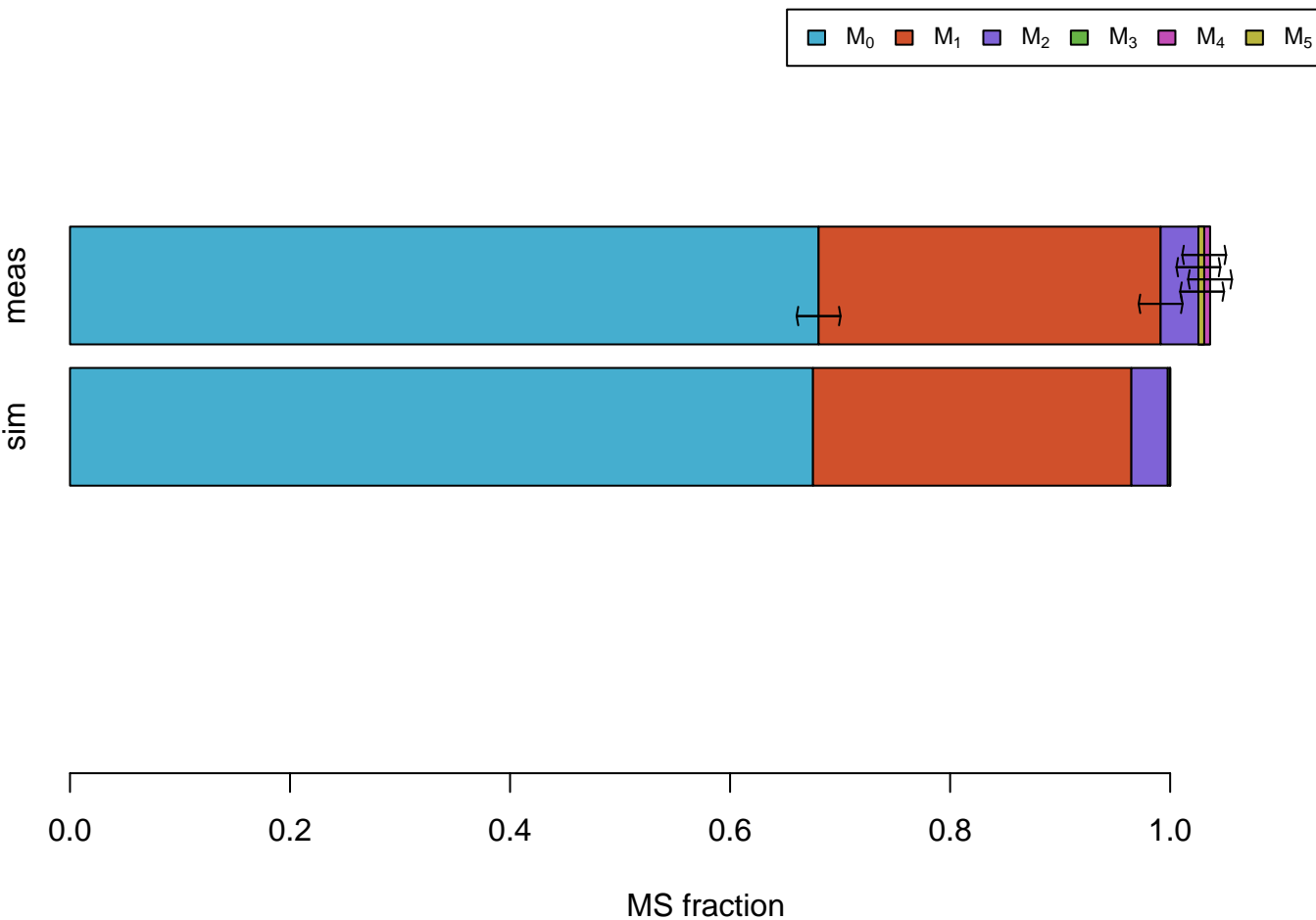
# Gly



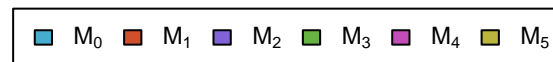
# Gly #01



# Ile #011111

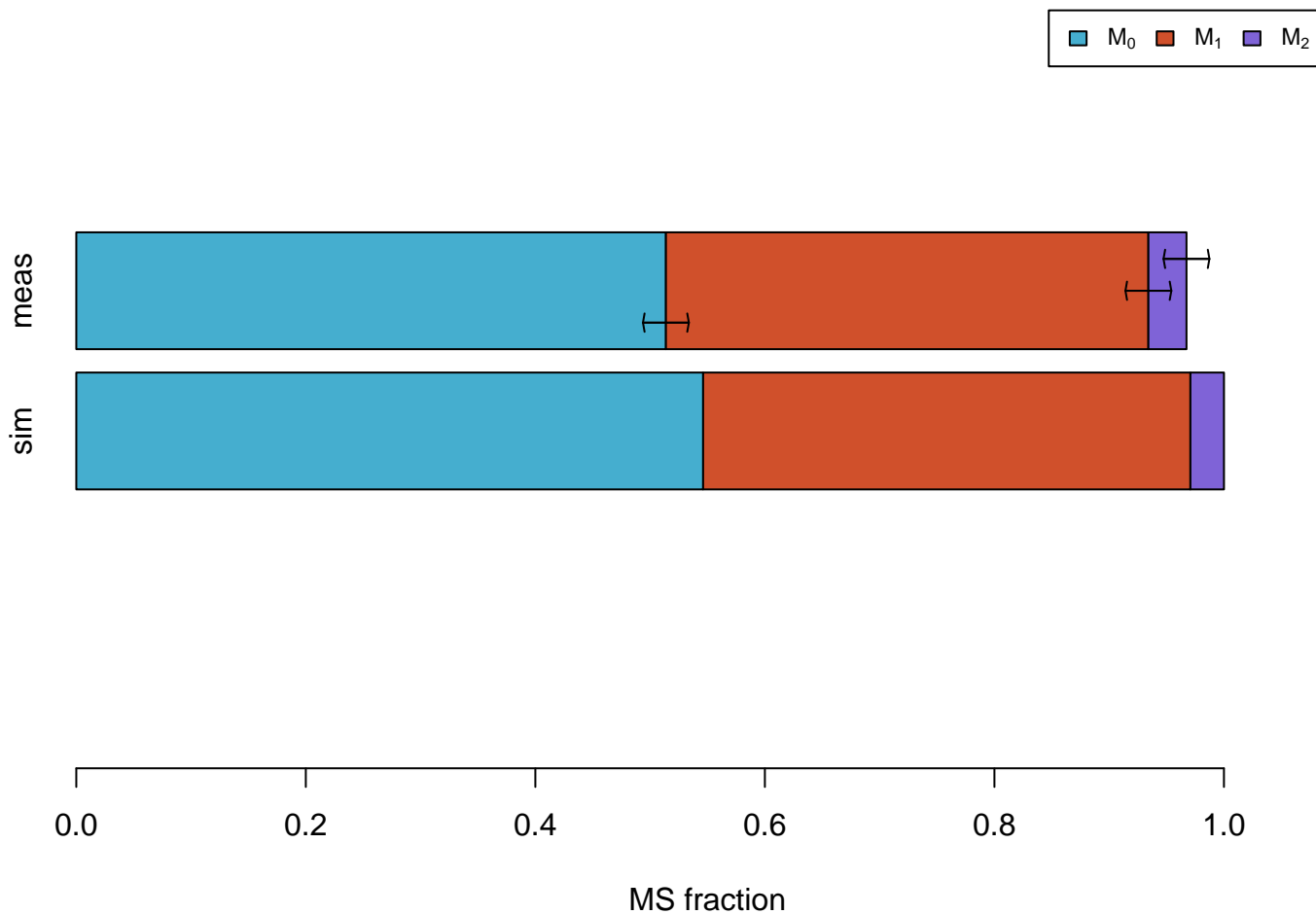


# Leu #011111

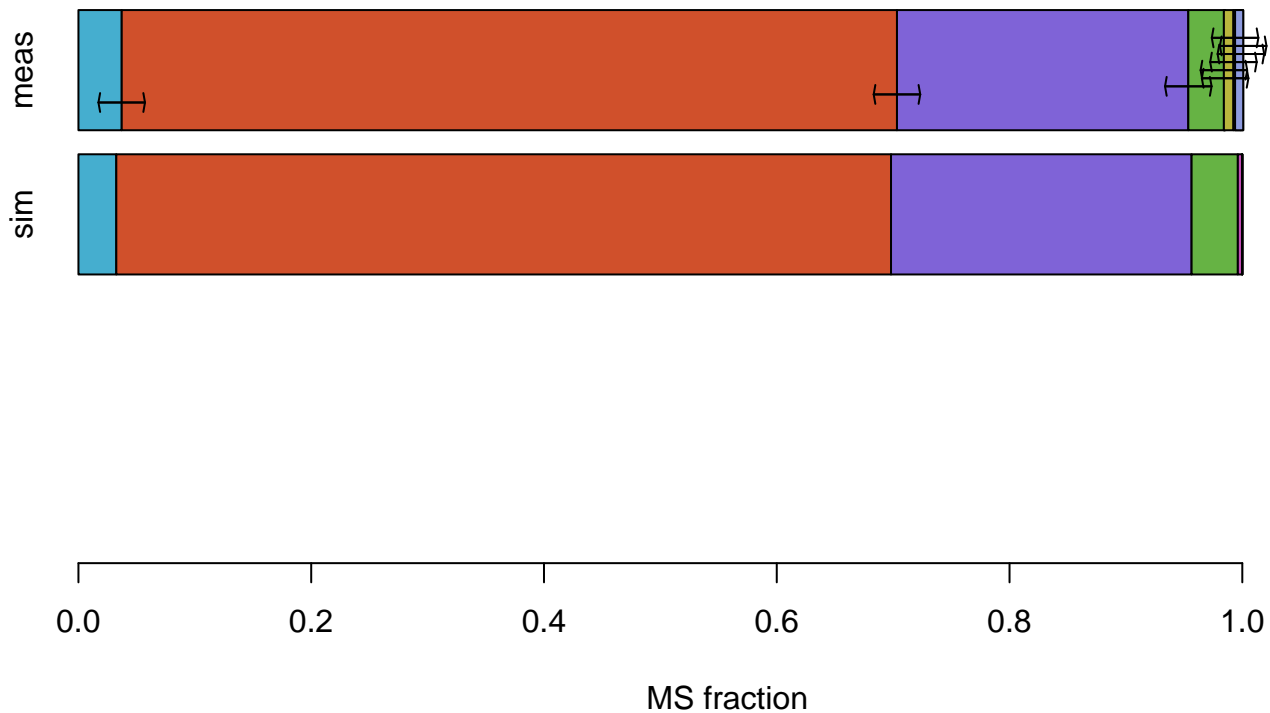


MS fraction

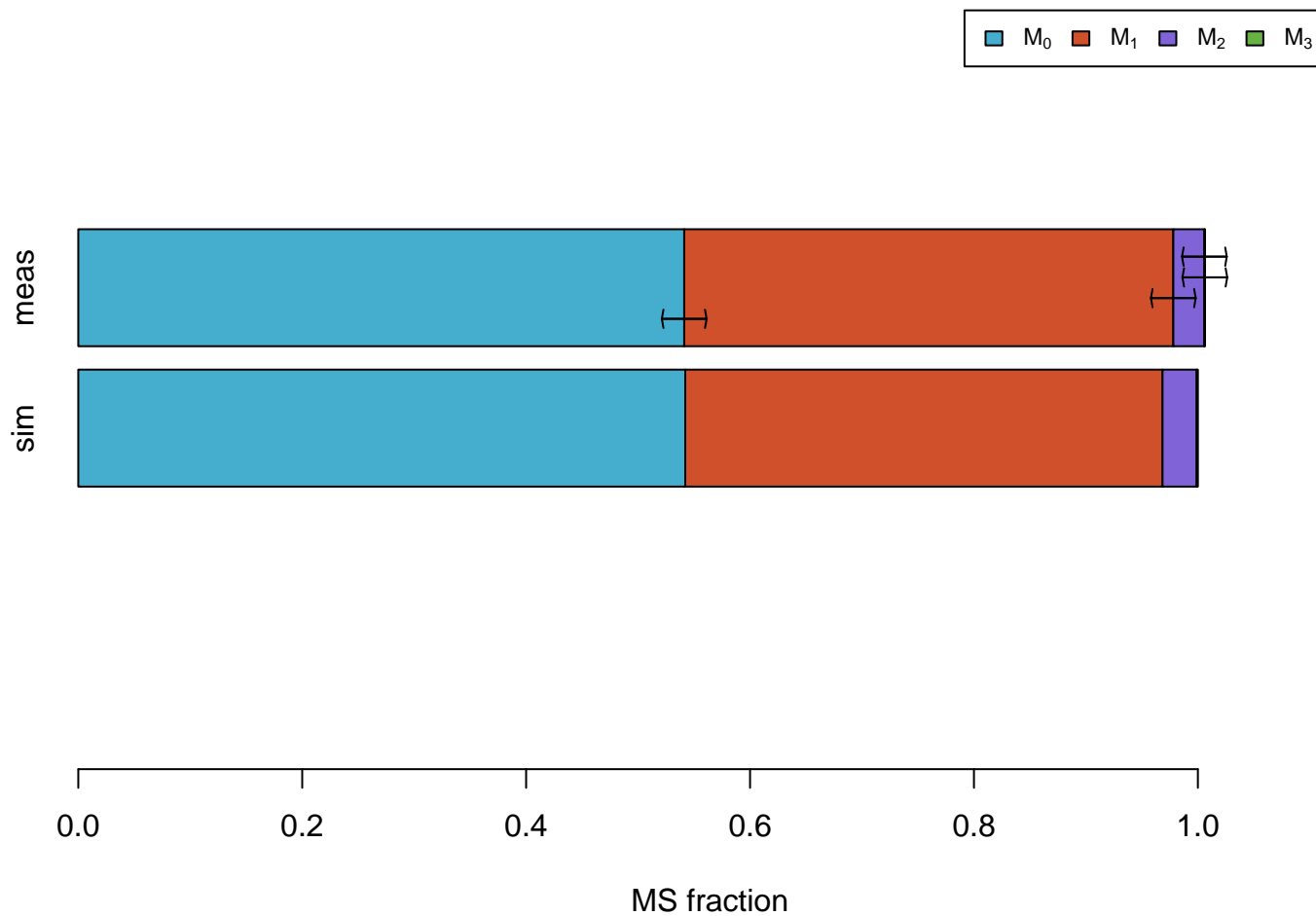
# Phe #110000000



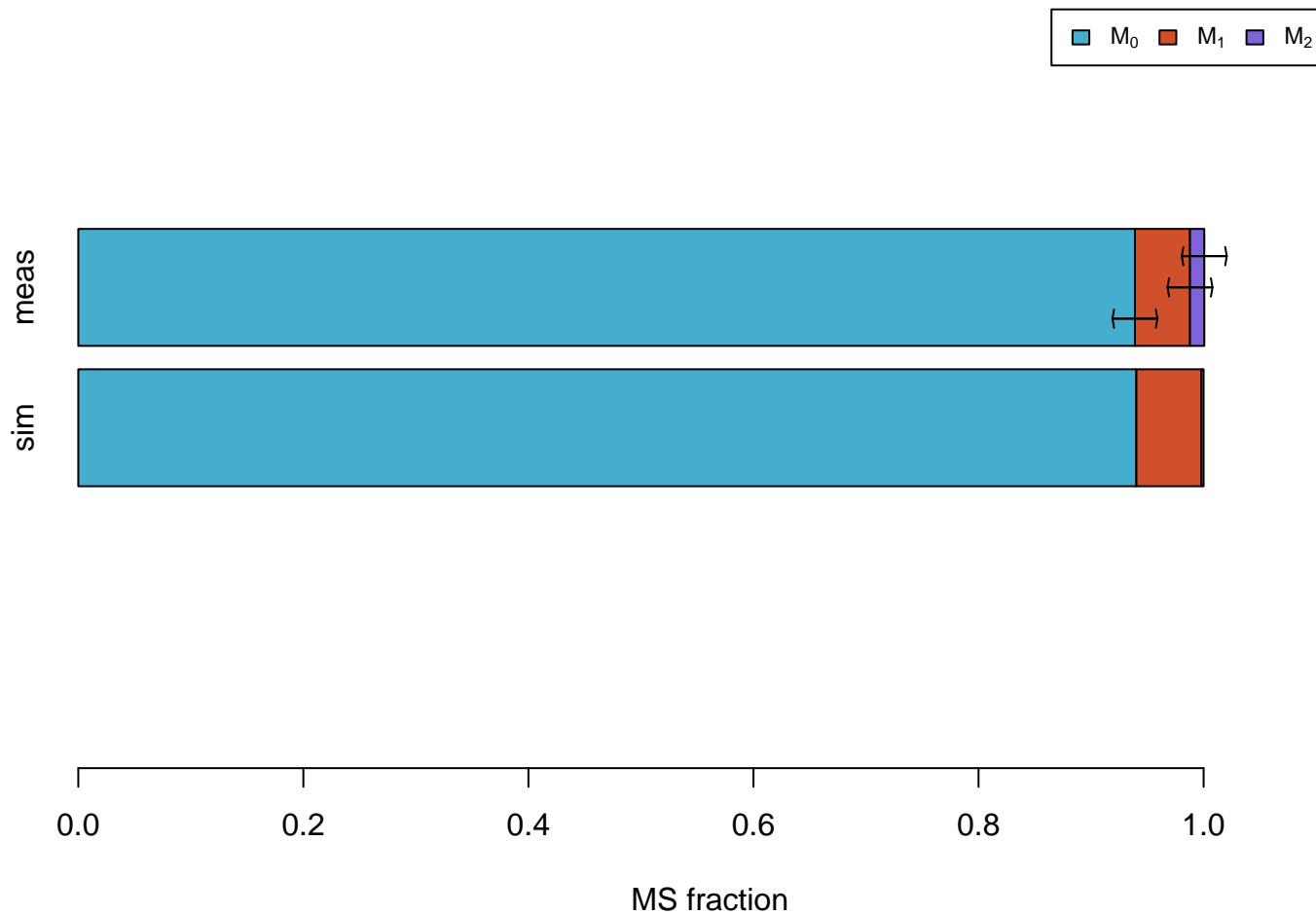
# Phe #011111111



# Ser

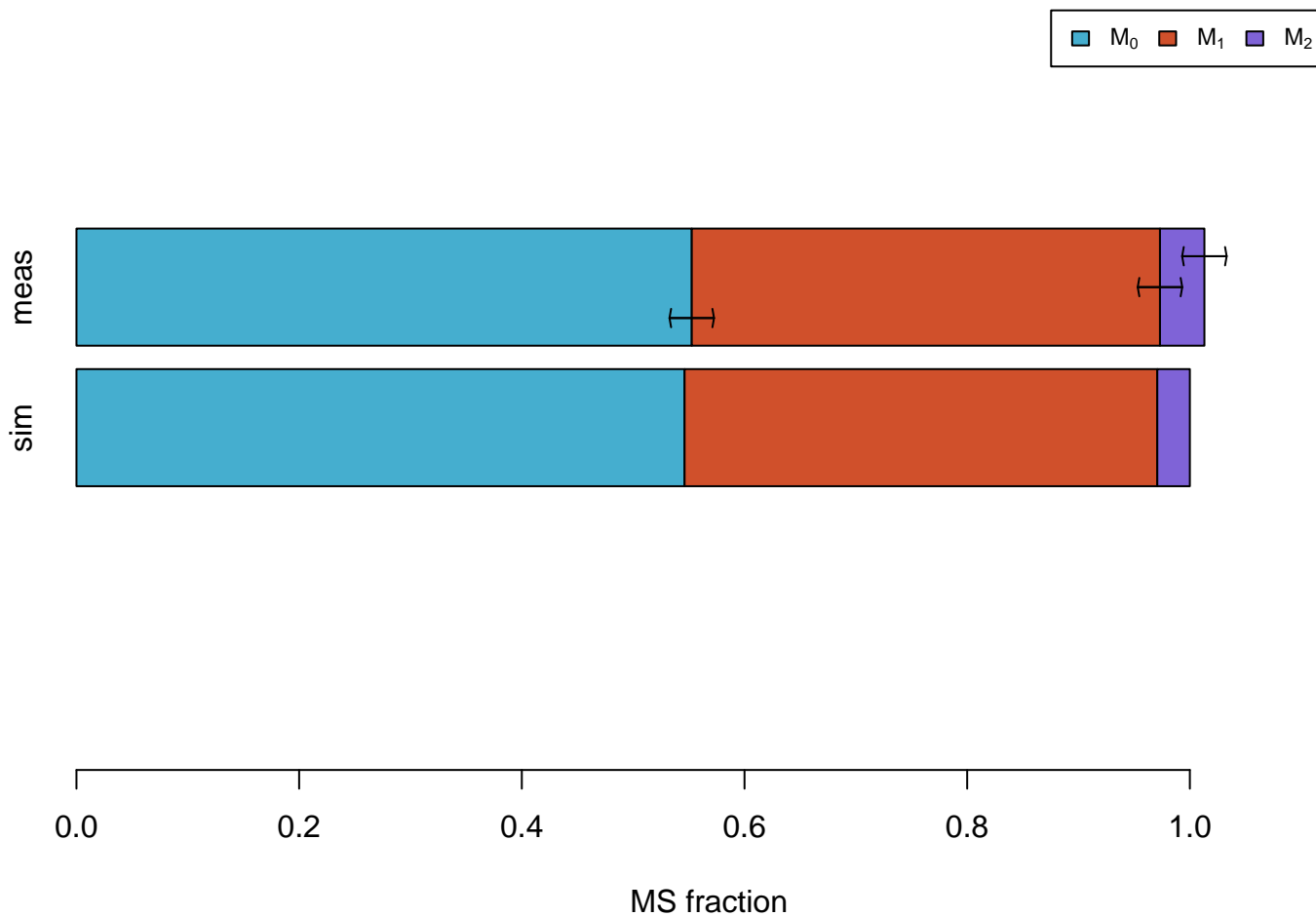


# Ser #011

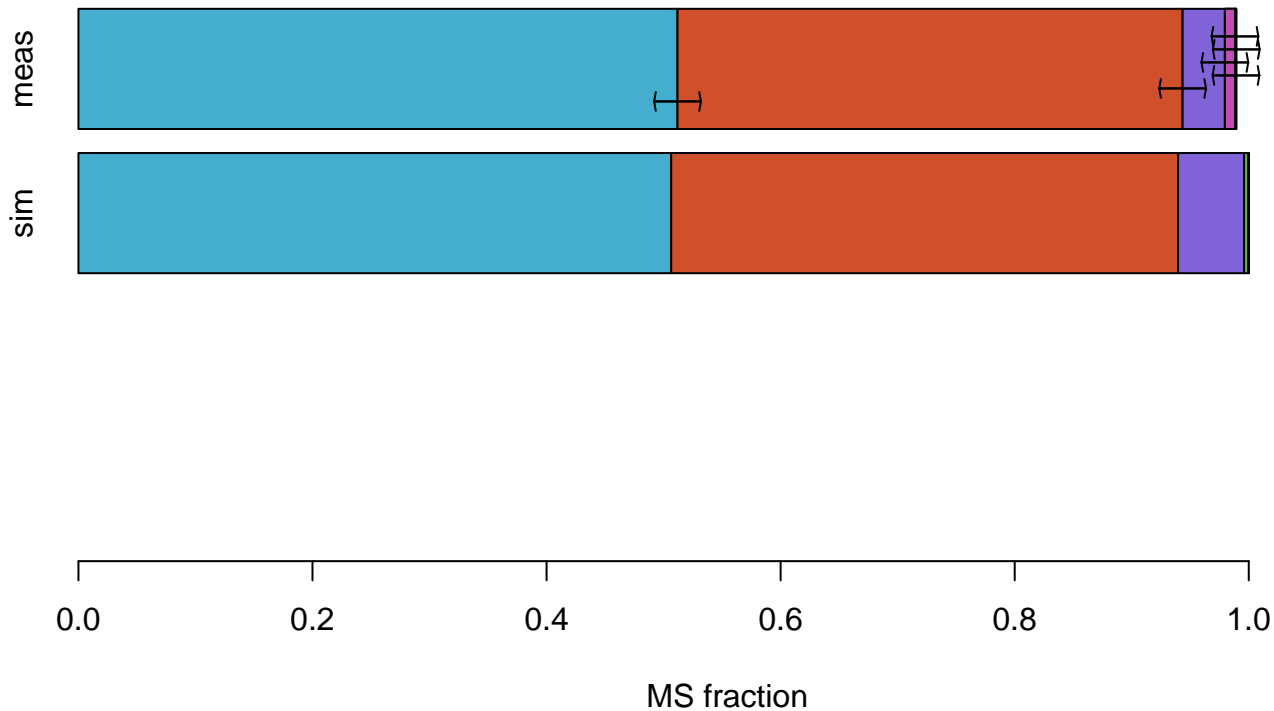
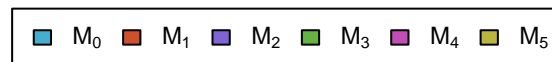




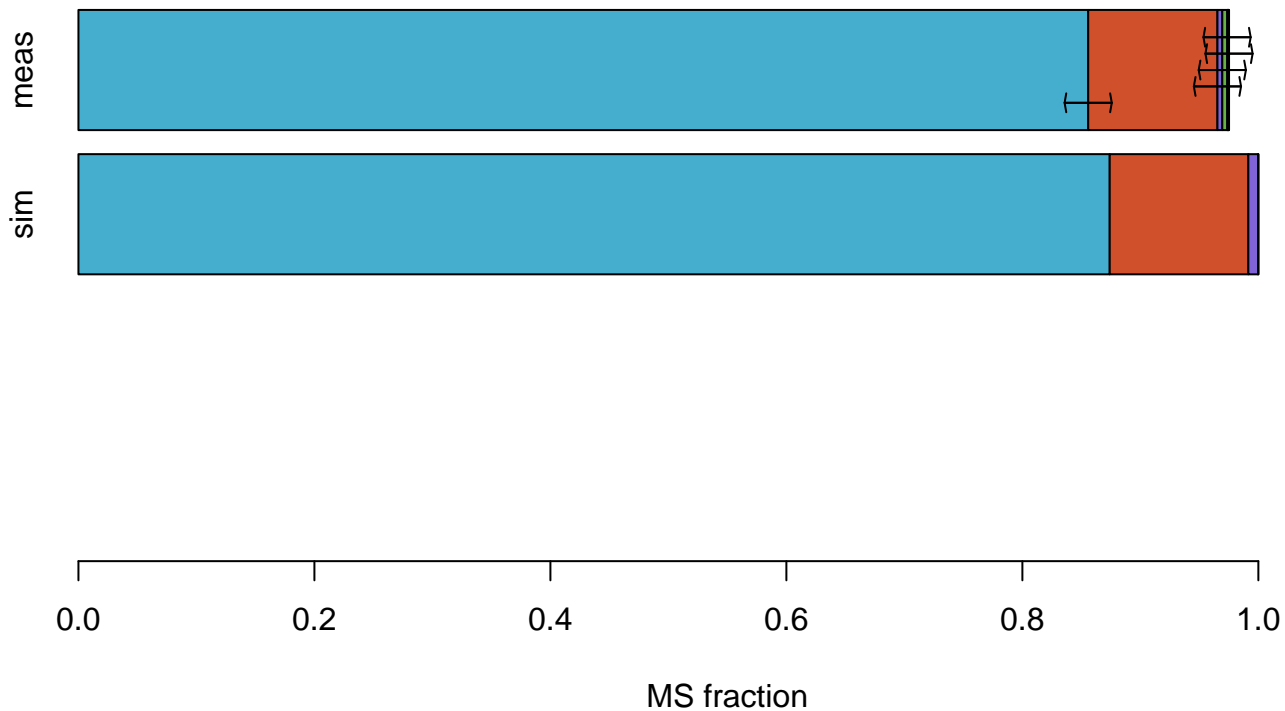
# Tyr #110000000



Val



Val #01111

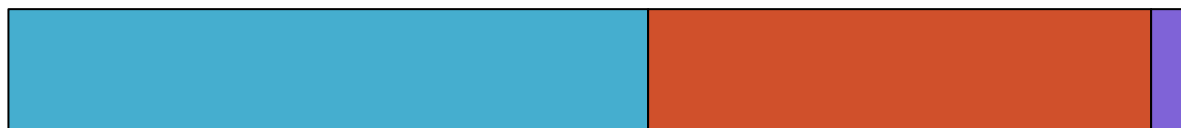


MS simulations

# 3PG



sim



MS fraction

**Ac**



sim



MS fraction

# AcCoA

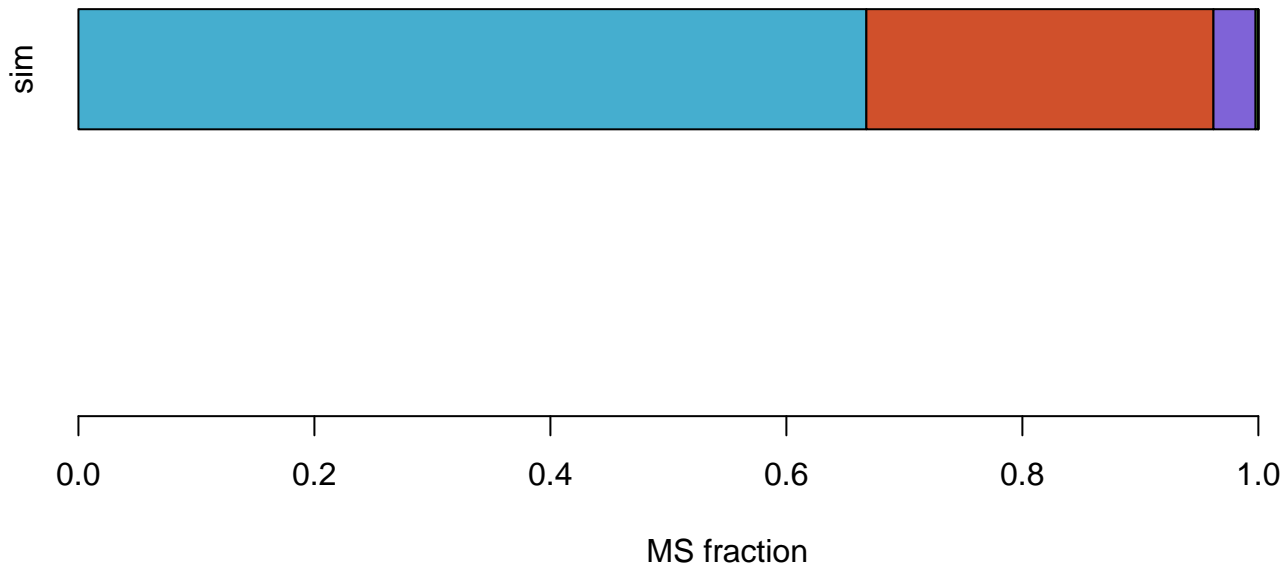


sim



MS fraction

# AKG





# Asn



sim



MS fraction

# CO2



sim



MS fraction

# Cys



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



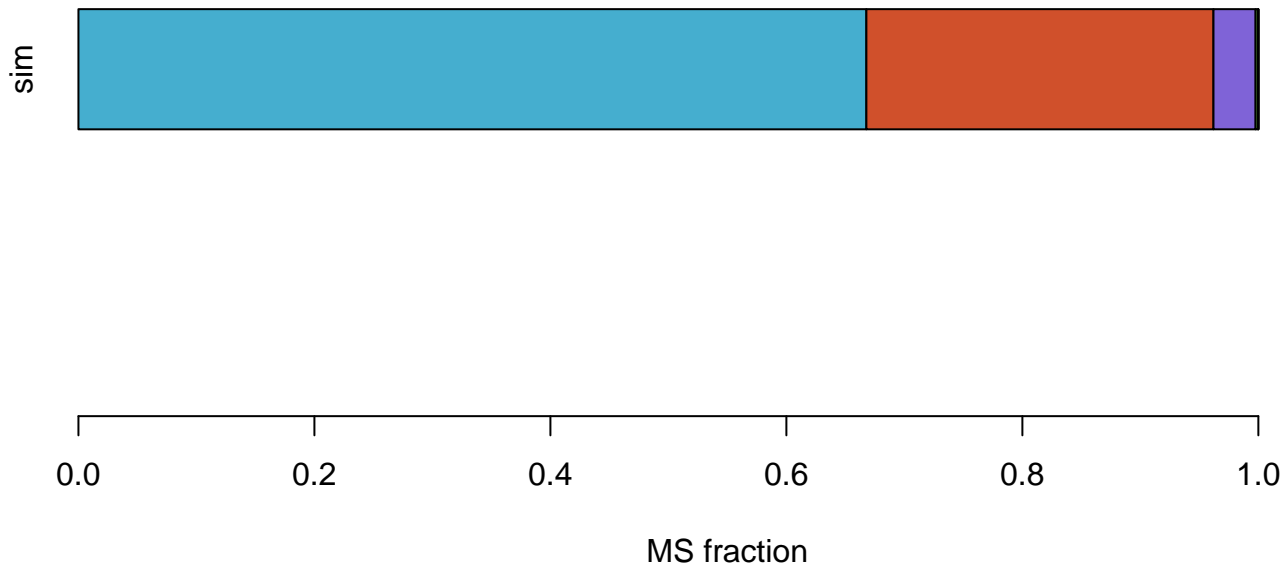
sim



MS fraction



# Gln



# Glyox



sim



MS fraction

# Mal



MS fraction

# MEETHF



sim



0.0

0.2

0.4

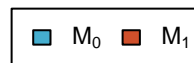
0.6

0.8

1.0

MS fraction

# METHF



sim



MS fraction

# OAC



sim



MS fraction

# PEP

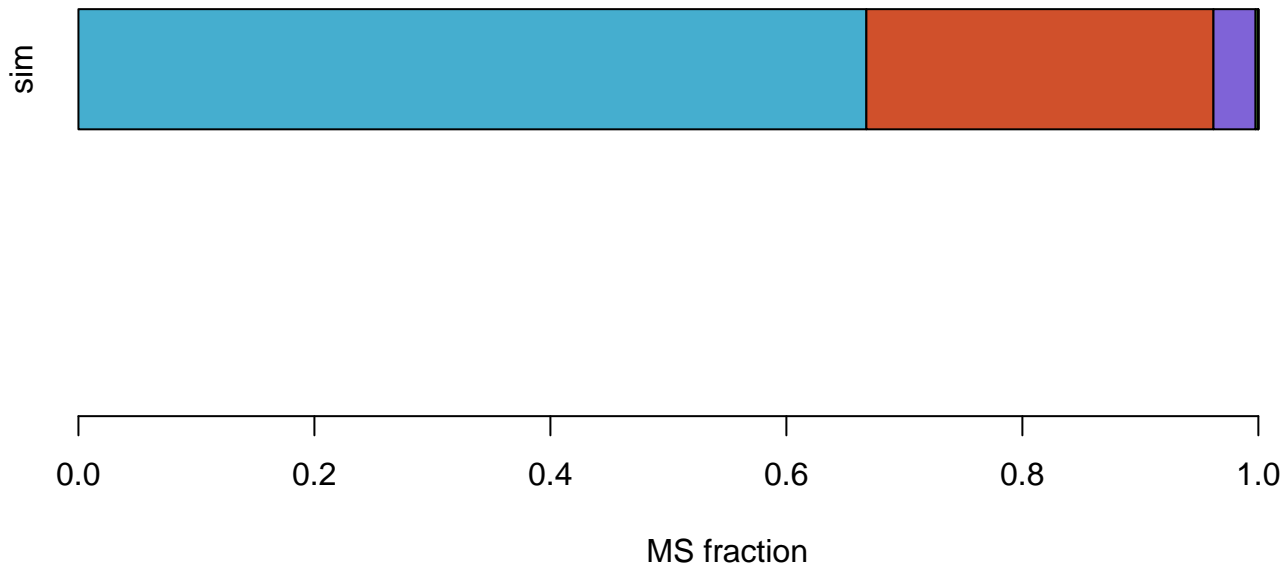


sim



MS fraction

Pro





# Pyr



sim



0.0

0.2

0.4

0.6

0.8

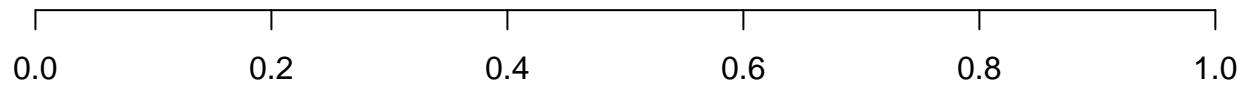
1.0

MS fraction

# Suc



sim



MS fraction

# SucCoA



sim



MS fraction

# TA-C3



sim

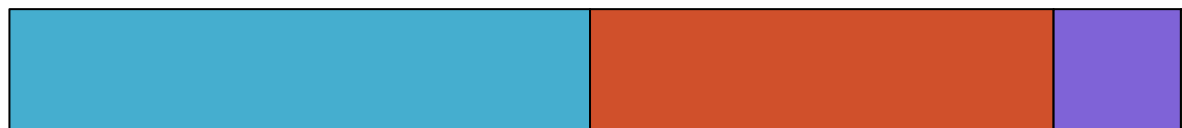


MS fraction

Thr



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction

# TK-C2



sim



MS fraction