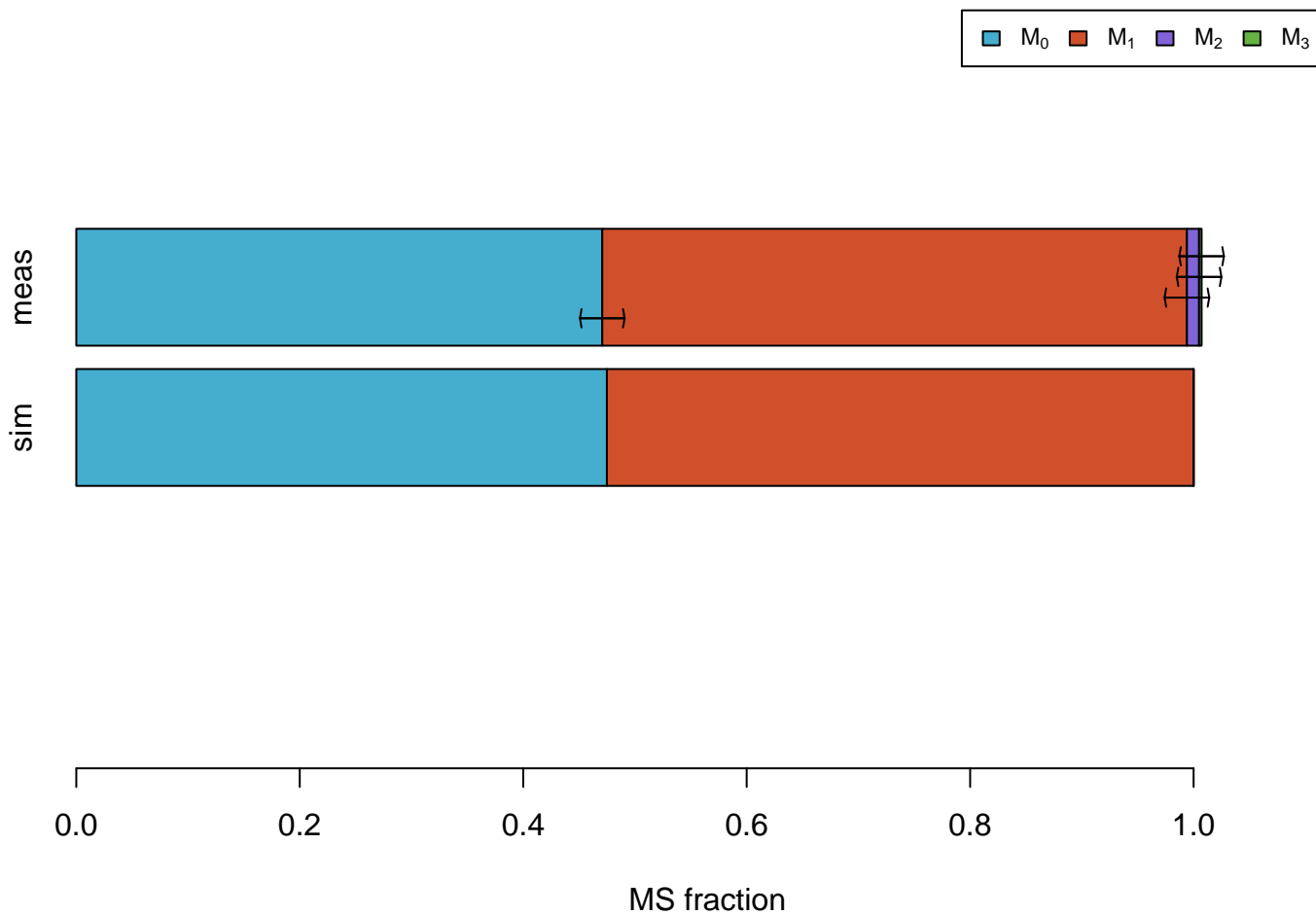
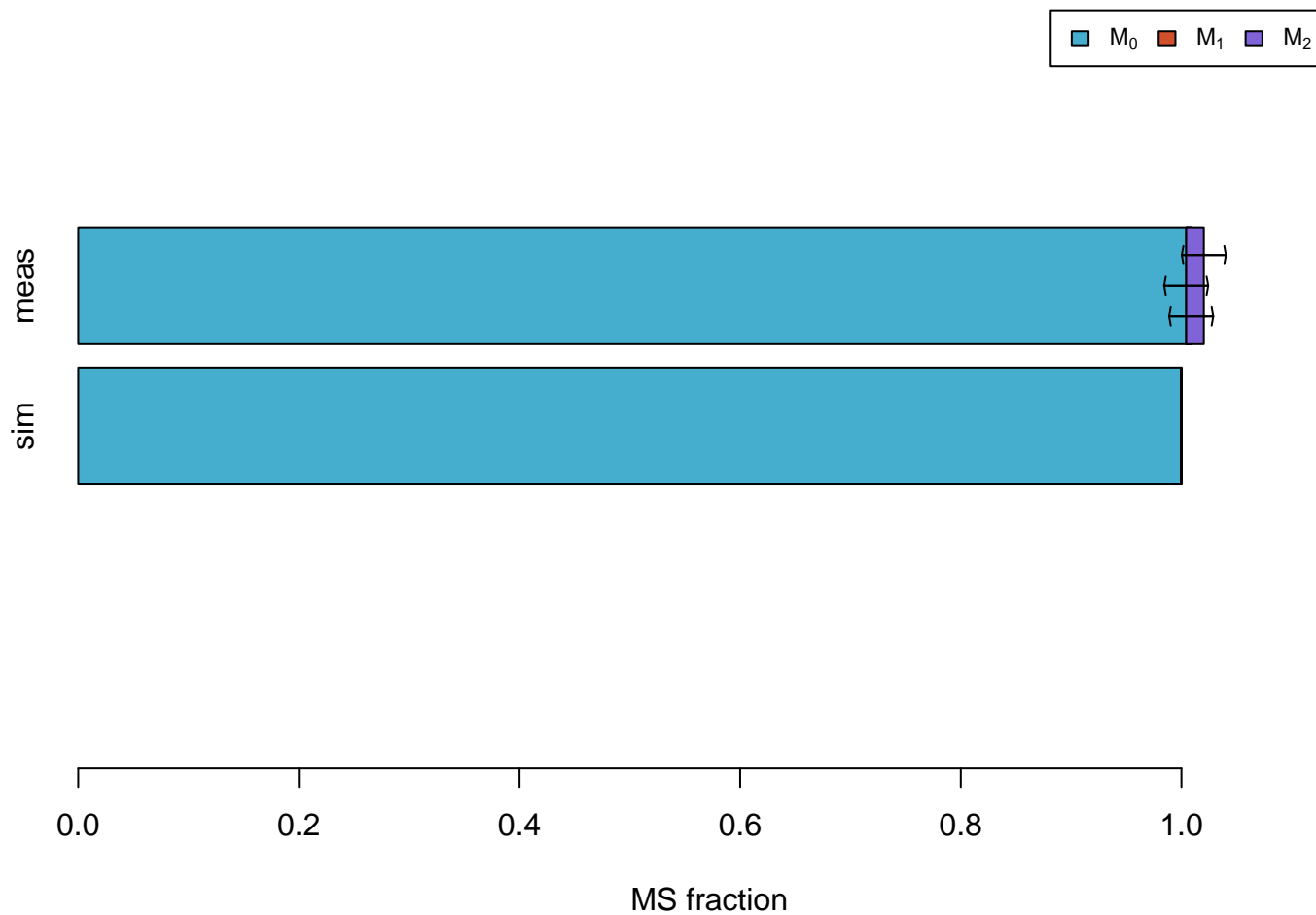


MS measurements  
(error bars= $\pm 2 \cdot \text{dev}$ )

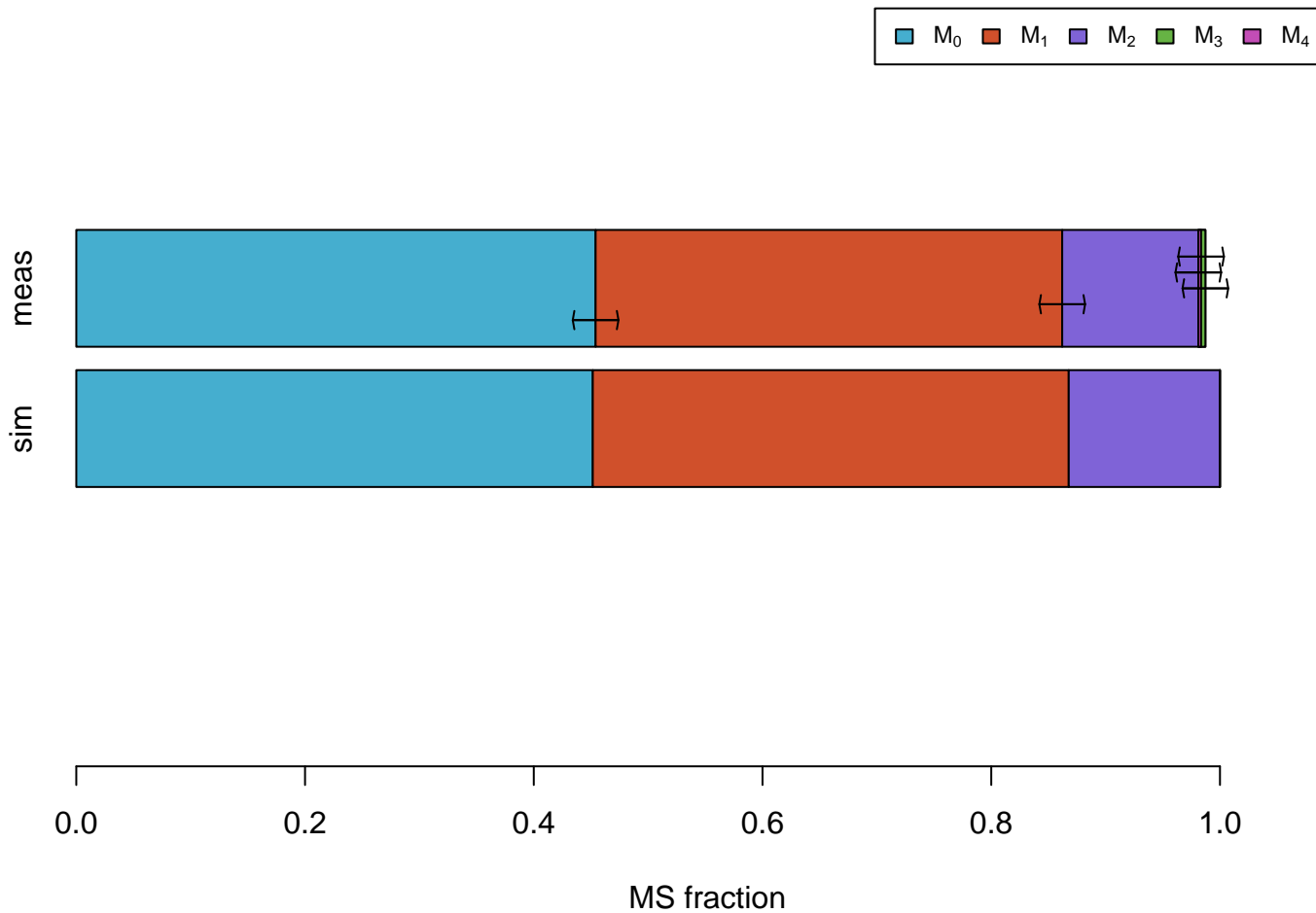
# Ala



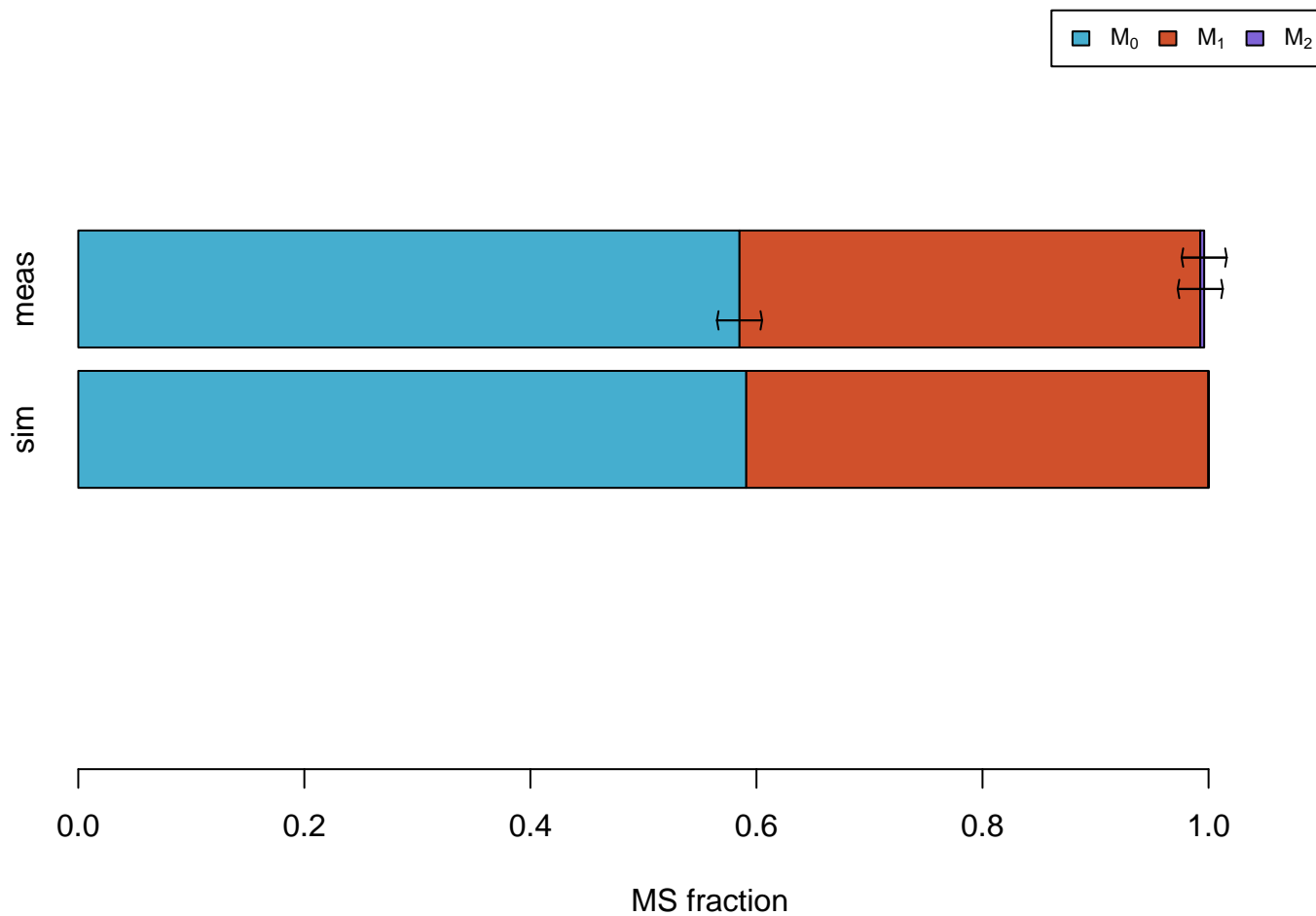
# Ala #011



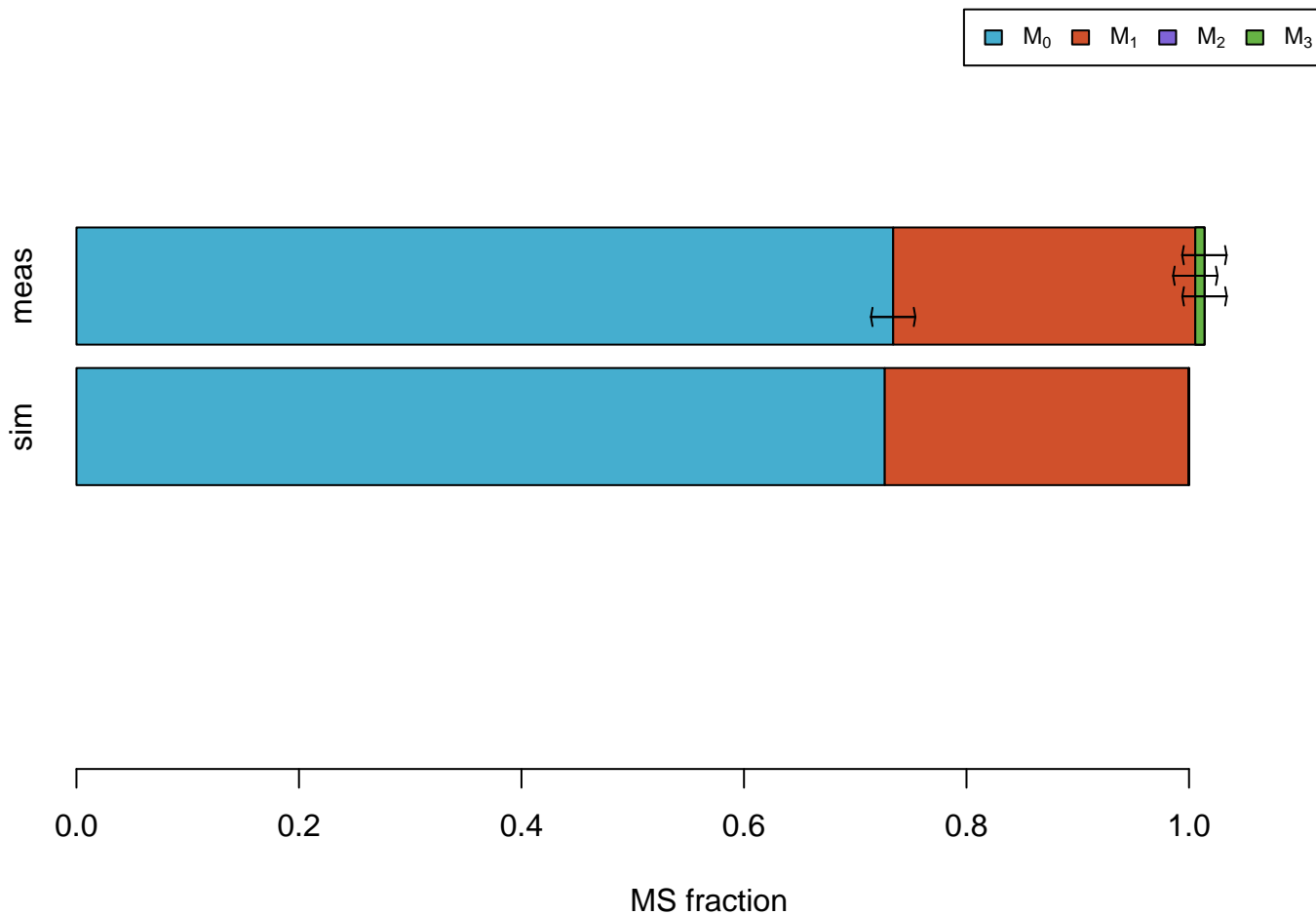
# Asp



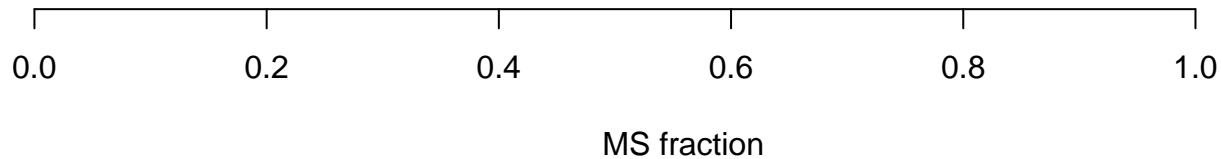
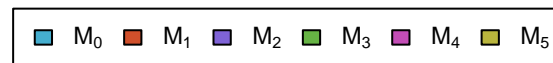
# Asp #1100



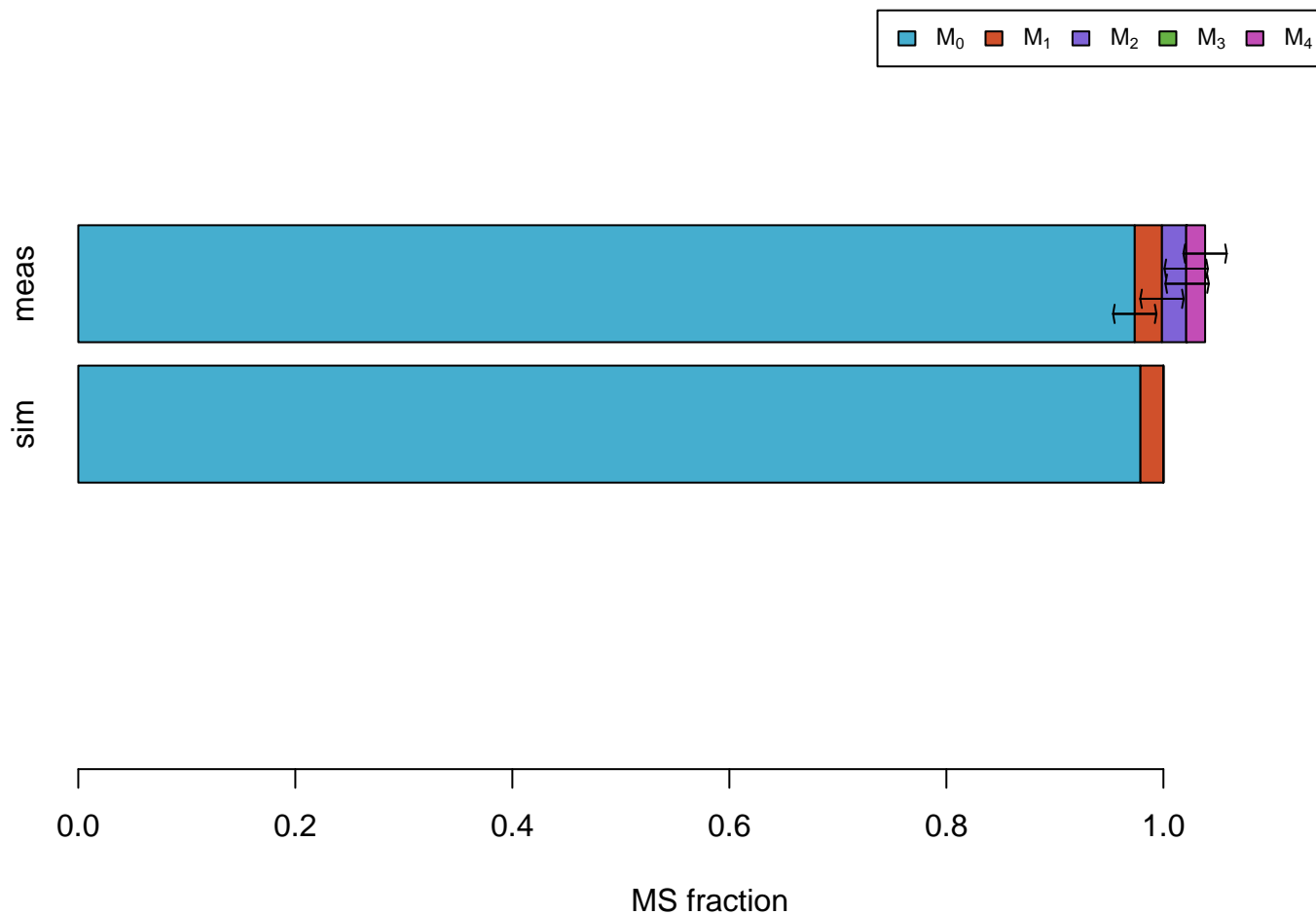
# Asp #0111



# Glu

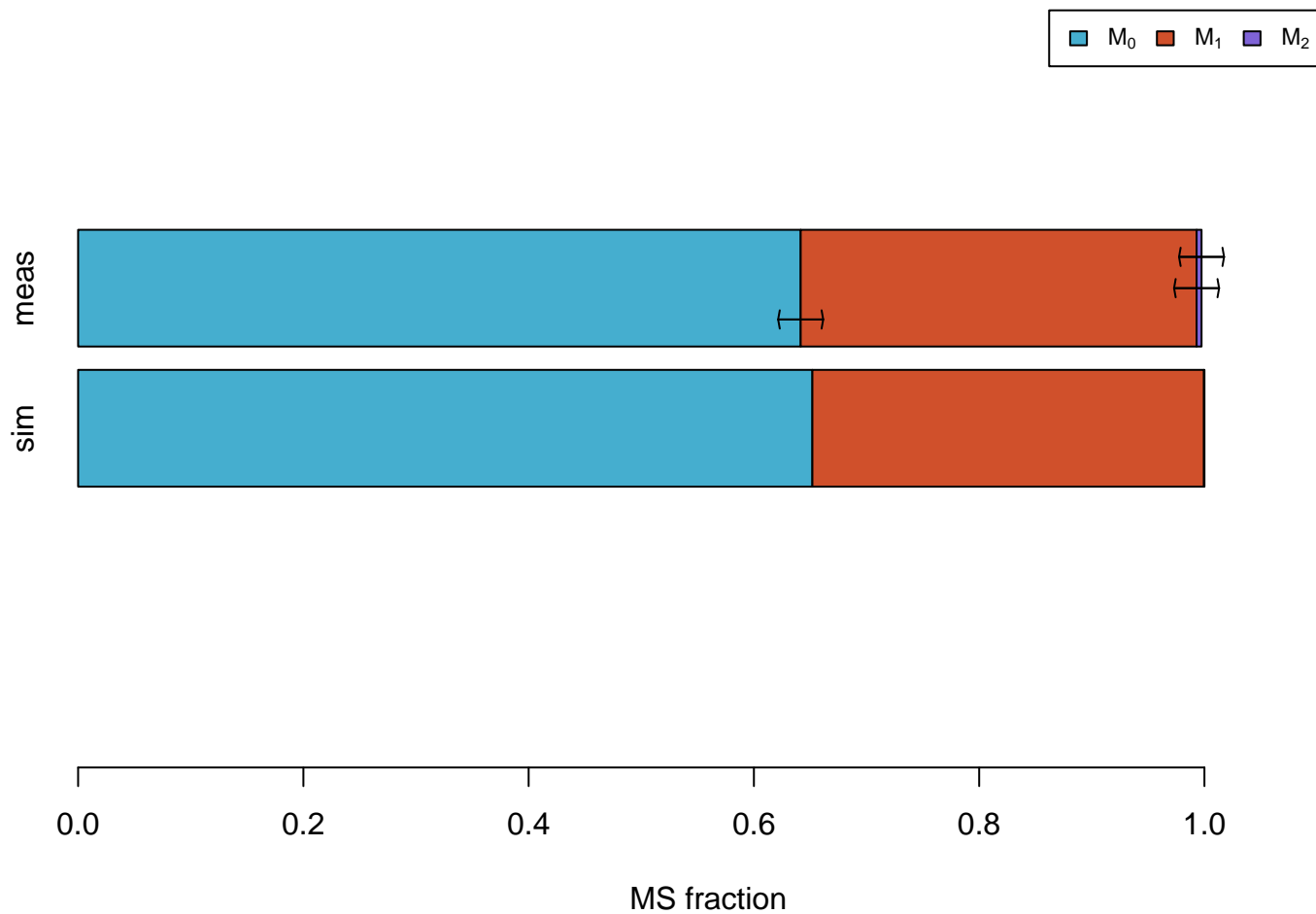


# Glu #01111





# Gly

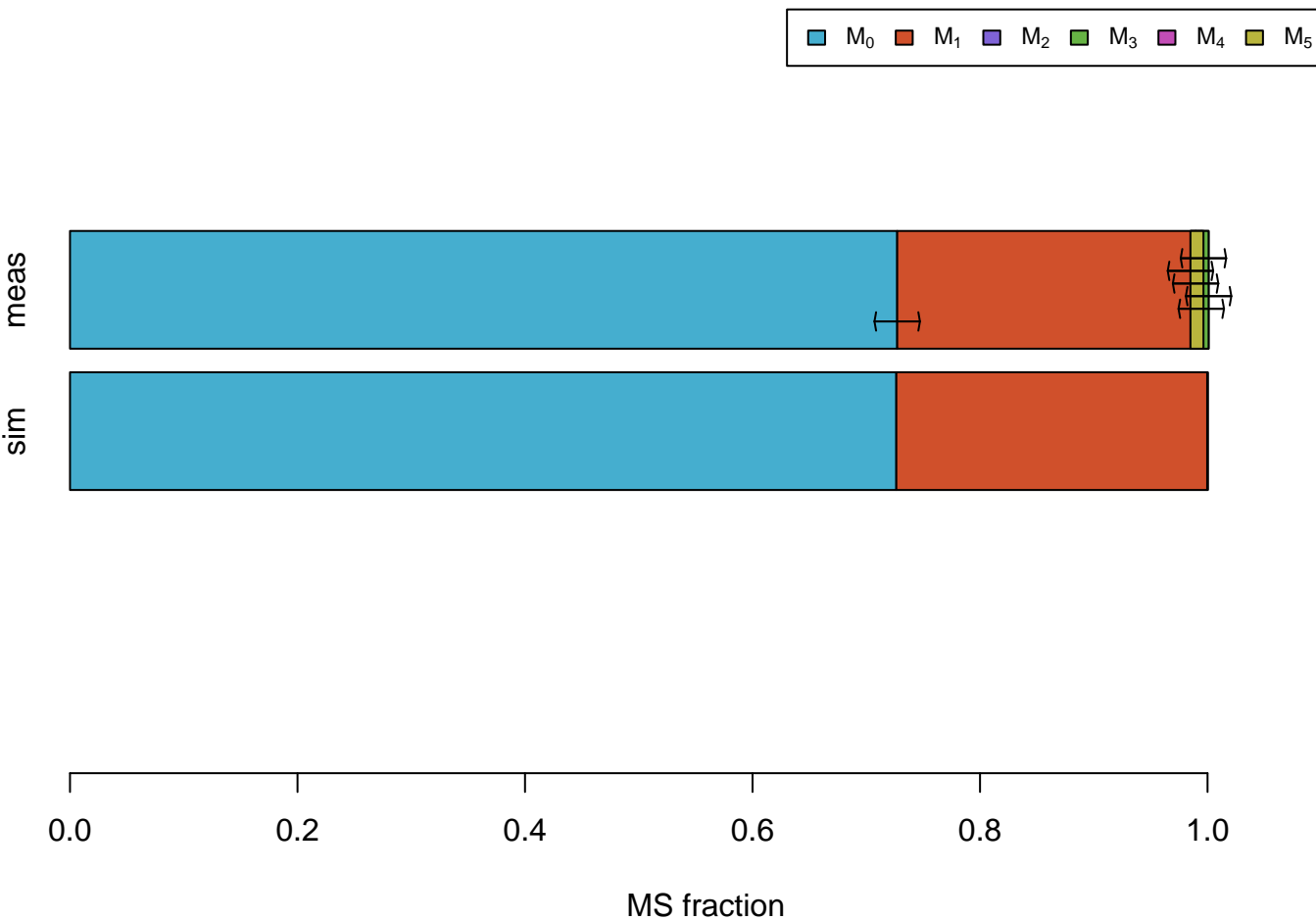


# Gly #01

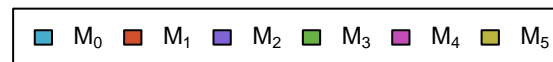


MS fraction

# Ile #011111

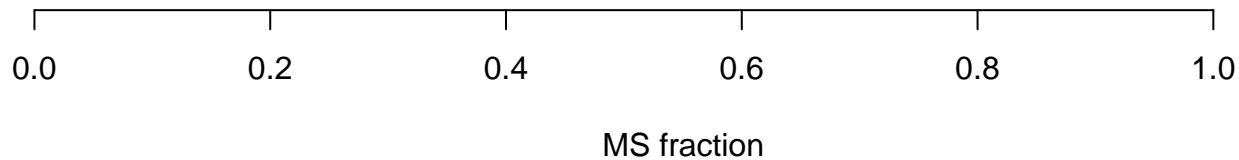


# Leu #011111

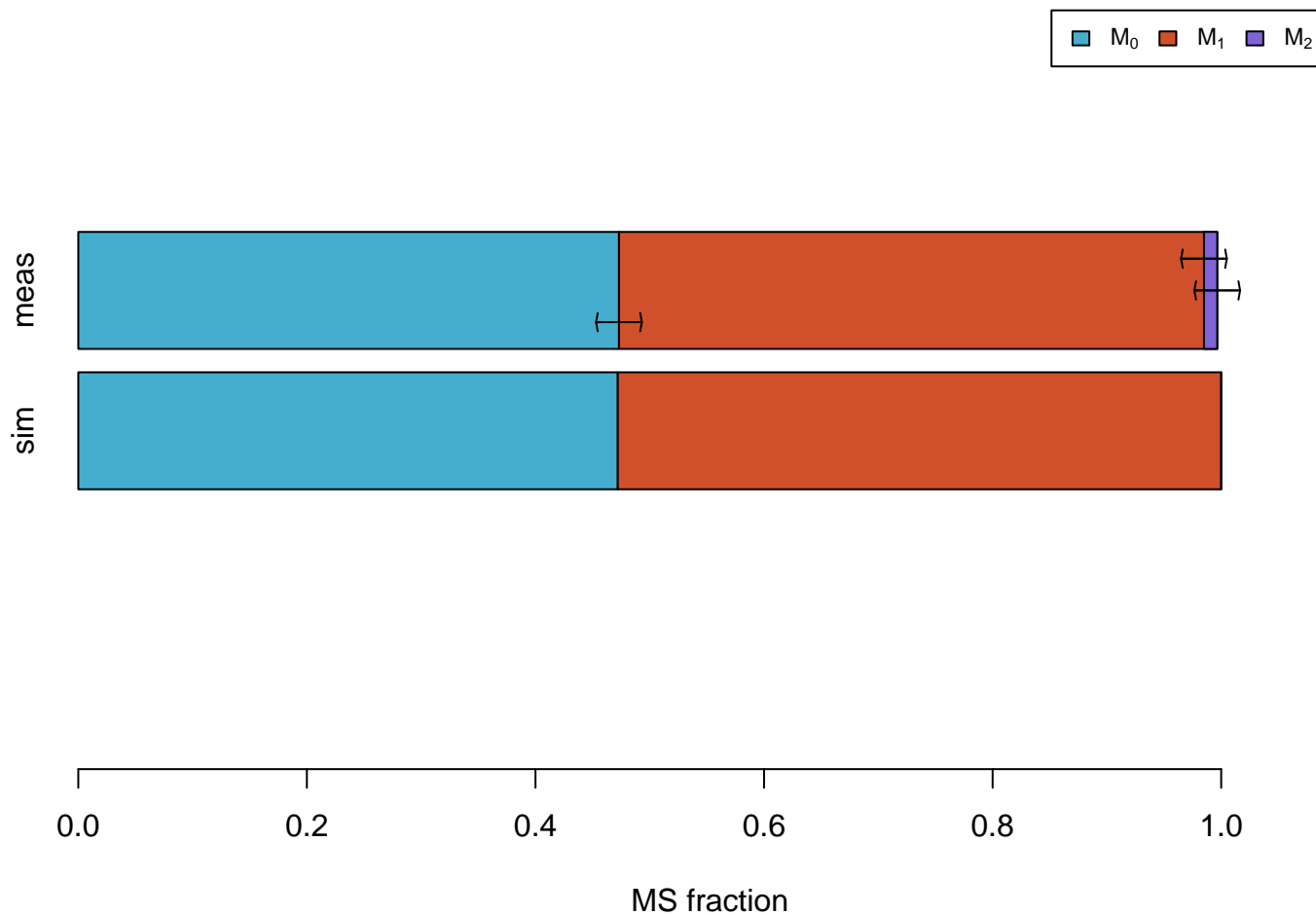


meas

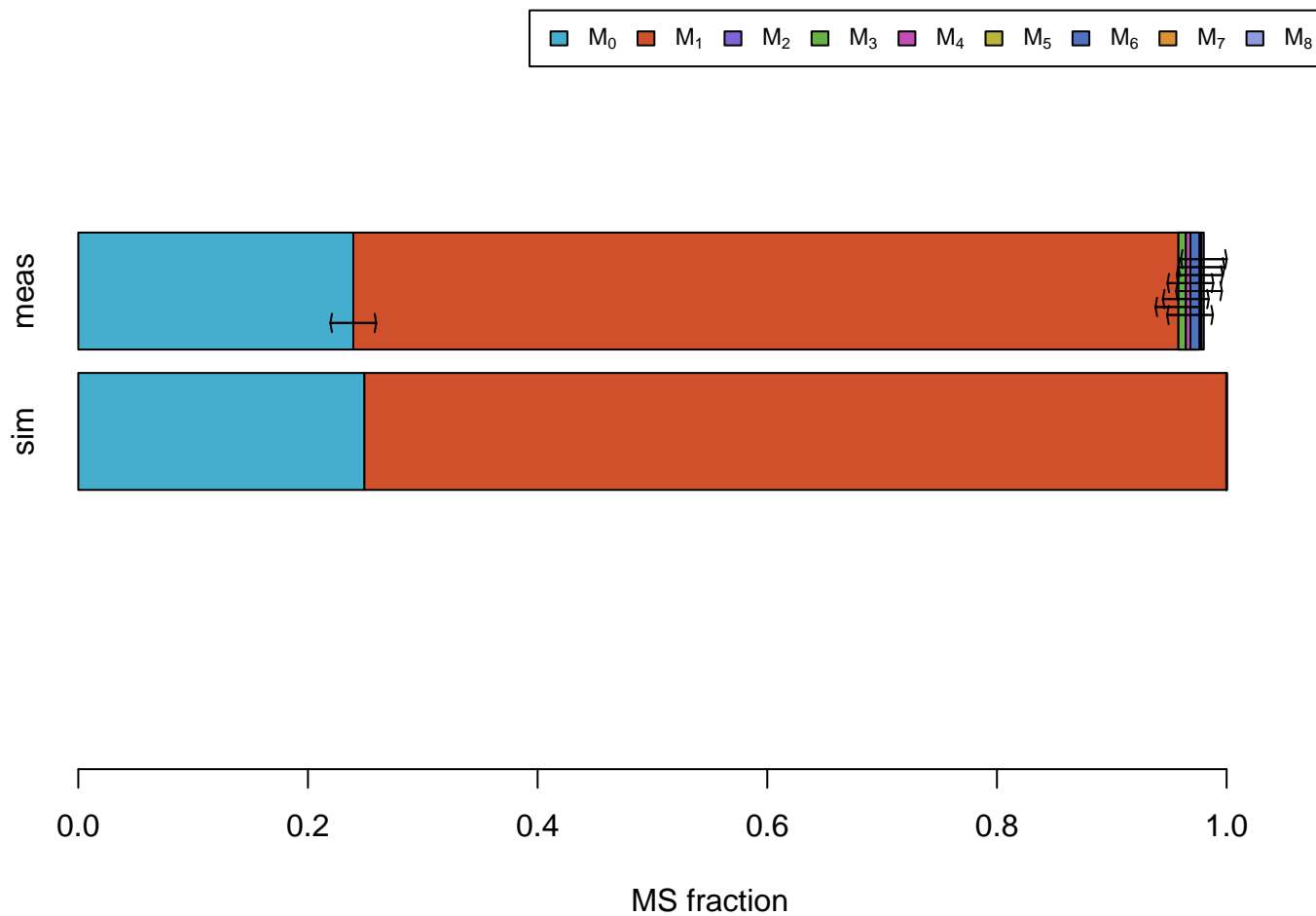
sim



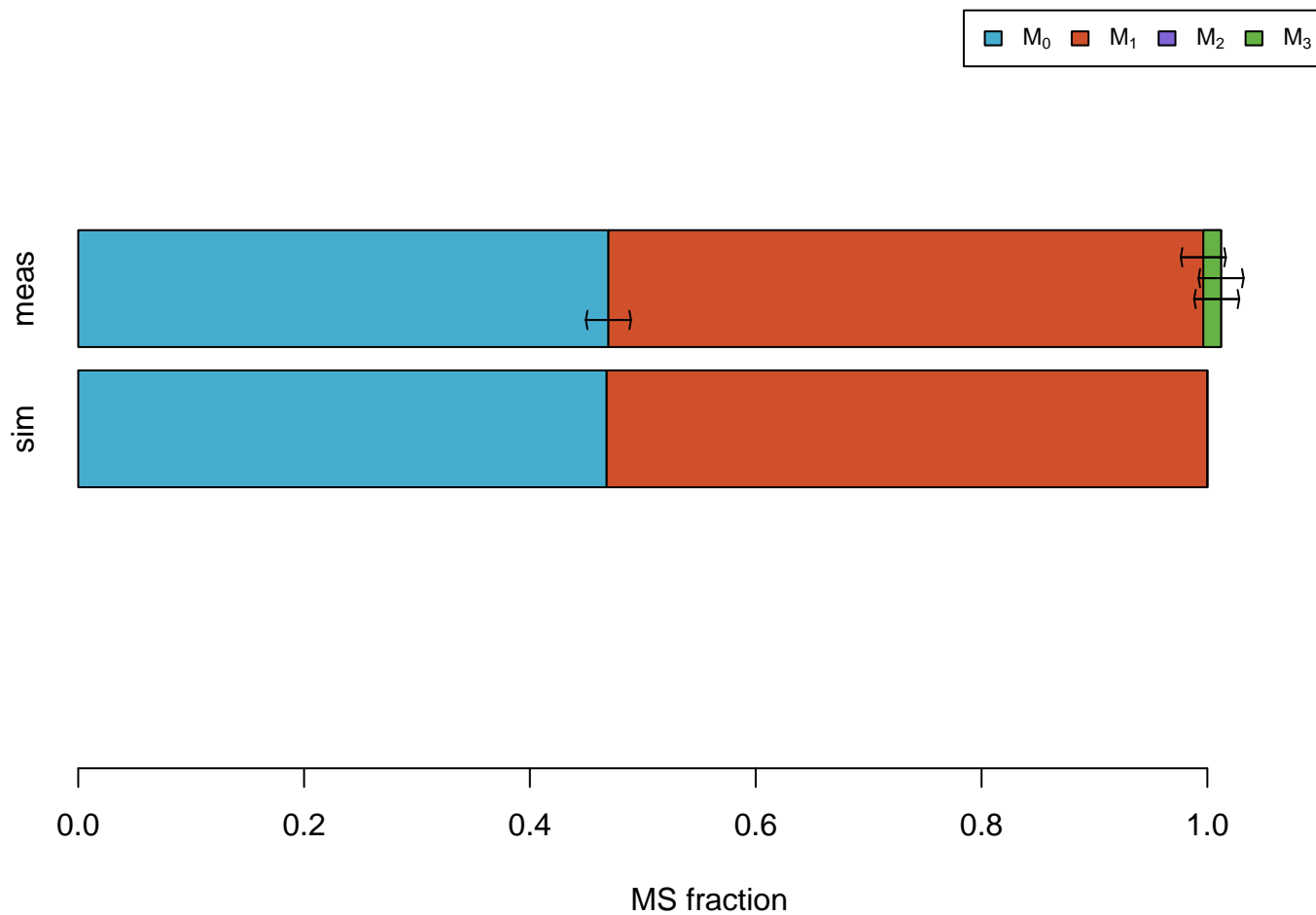
# Phe #110000000



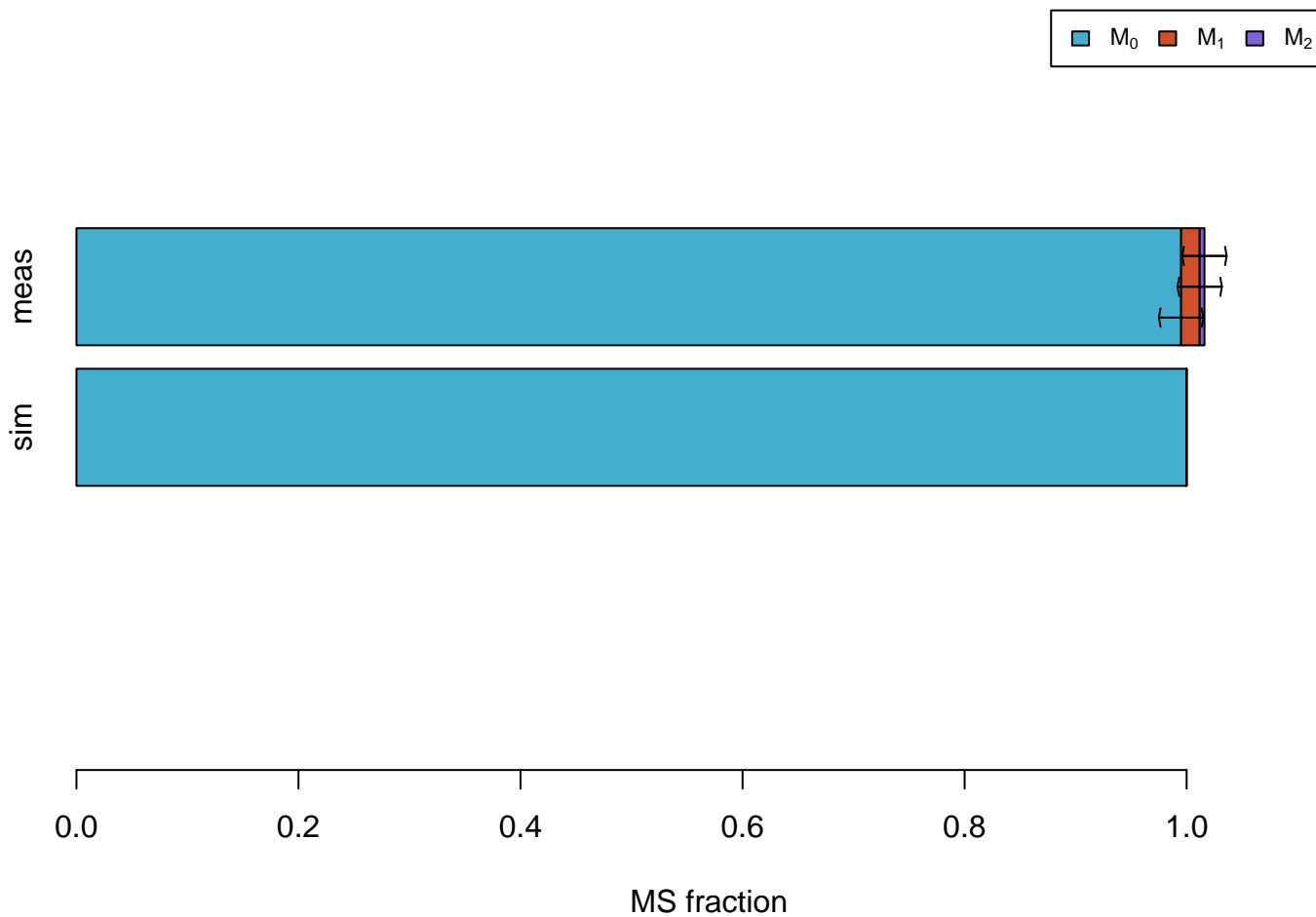
**Phe #011111111**



# Ser

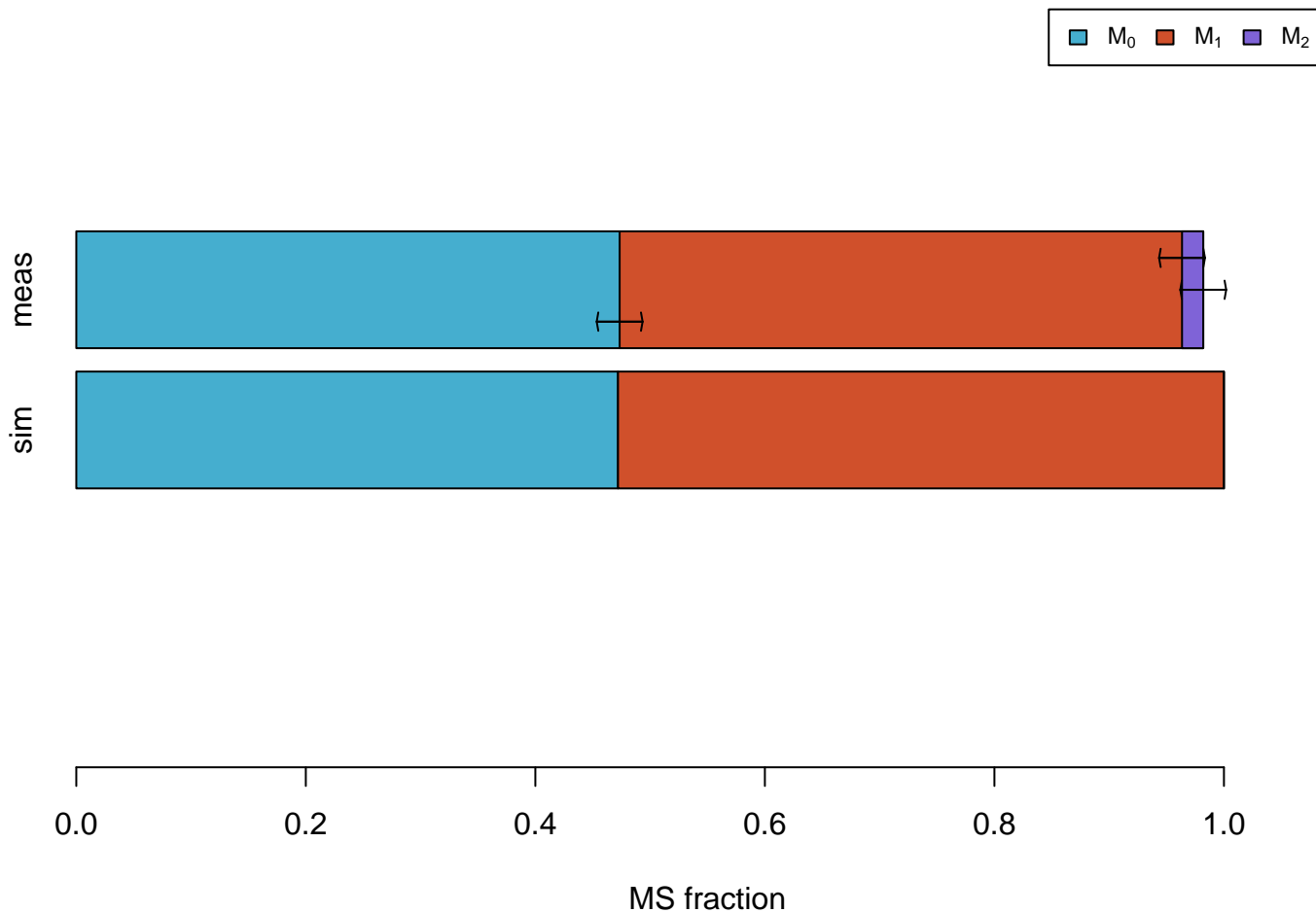


# Ser #011





# Tyr #110000000



Val

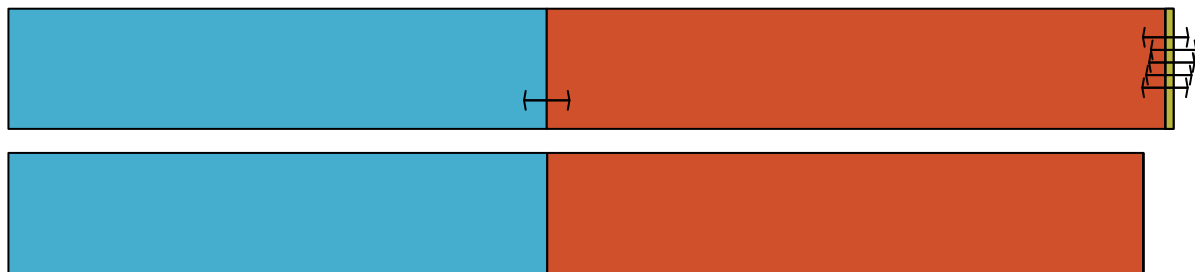


meas

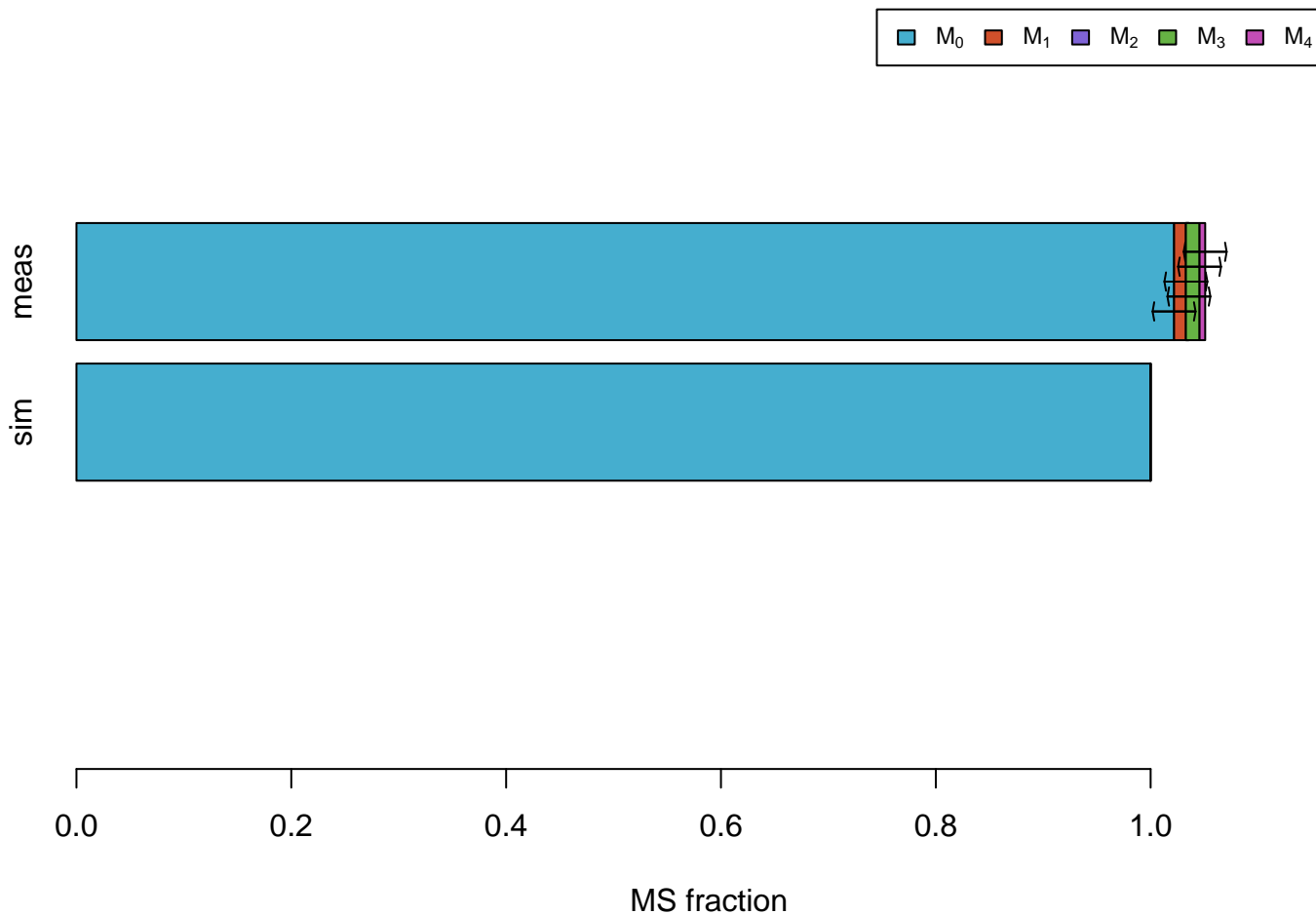
sim



MS fraction



# Val #01111



MS simulations

# 3PG



MS fraction

**Ac**



sim



MS fraction

# AcCoA



sim



MS fraction

# AKG



sim



MS fraction



# Asn



MS fraction

CO2



sim



MS fraction

# Cys



MS fraction

# DHAP



sim



MS fraction

# E4P



MS fraction

# FTHF



sim



0.0

0.2

0.4

0.6

0.8

1.0

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



0.0

0.2

0.4

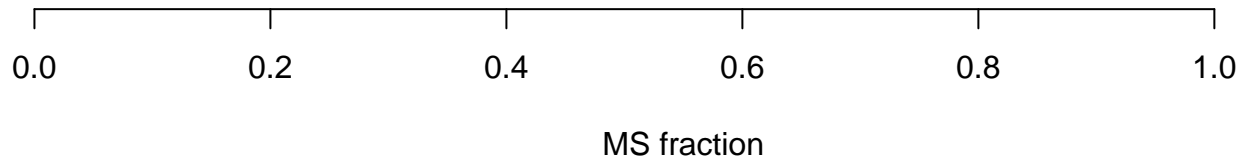
0.6

0.8

1.0

MS fraction

# Mal



# MEETHF



sim



0.0

0.2

0.4

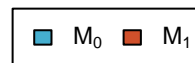
0.6

0.8

1.0

MS fraction

# METHF



MS fraction

# OAC



MS fraction

# PEP



MS fraction

Pro



sim



0.0

0.2

0.4

0.6

0.8

1.0

MS fraction



# Pyr



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

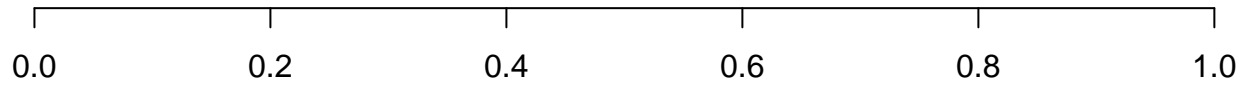
1.0

MS fraction

# TK-C2



sim



MS fraction