

A EMU Basis Vector Sensitivities

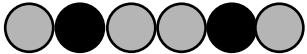
uuu	1.0
Gluc ₅ × uu	0.8
Gluc ₂ × uu	0.7
Gluc ₅₆ × Gluc ₅	0.6
Gluc ₅₆ × Gluc ₂	0.6
Gluc ₁₂ × Gluc ₅	0.6
Gluc ₁₂ × Gluc ₂	0.5

Gluc ₄₅₆	-6.0
Gluc ₁₂₃	-5.7
Gluc ₁ × Gluc ₆ × u	-0.3
Gluc ₁ × (Gluc ₆) ²	-0.2

B Tracer Selection Rules

- (1) $\text{Gluc}_{123} = \text{Gluc}_{456}$
- (2) $\text{Gluc}_{123} \neq \text{uuu}, \text{Gluc}_{456} \neq \text{uuu}$
- (3) $\text{Gluc}_{456} \neq \text{Gluc}_5 \times \text{uu} \rightarrow \text{Gluc}_{46} \neq \text{uu}$
- (4) $\text{Gluc}_{123} \neq \text{Gluc}_2 \times \text{uu} \rightarrow \text{Gluc}_{13} \neq \text{uu}$
- (5) $\text{Gluc}_2 = \text{Gluc}_5$
- (6) $\text{Gluc}_{456} \neq \text{Gluc}_{56} \times \text{Gluc}_5 \rightarrow \text{Gluc}_4 \neq \text{Gluc}_5$
- (7) $\text{Gluc}_{456} \neq \text{Gluc}_{56} \times \text{Gluc}_2 \rightarrow \text{Gluc}_4 \neq \text{Gluc}_2$
- (8) $\text{Gluc}_{123} \neq \text{Gluc}_{12} \times \text{Gluc}_5 \rightarrow \text{Gluc}_3 \neq \text{Gluc}_5$
- (9) $\text{Gluc}_{123} \neq \text{Gluc}_{12} \times \text{Gluc}_2 \rightarrow \text{Gluc}_3 \neq \text{Gluc}_2$

C Acceptable Tracers

- (5)  OR 
- (3-7)  OR 
- (3-9)  OR 

Glucose:

1

2

3

4

5

6

 ¹²C

 ¹³C

 ¹²C or ¹³C