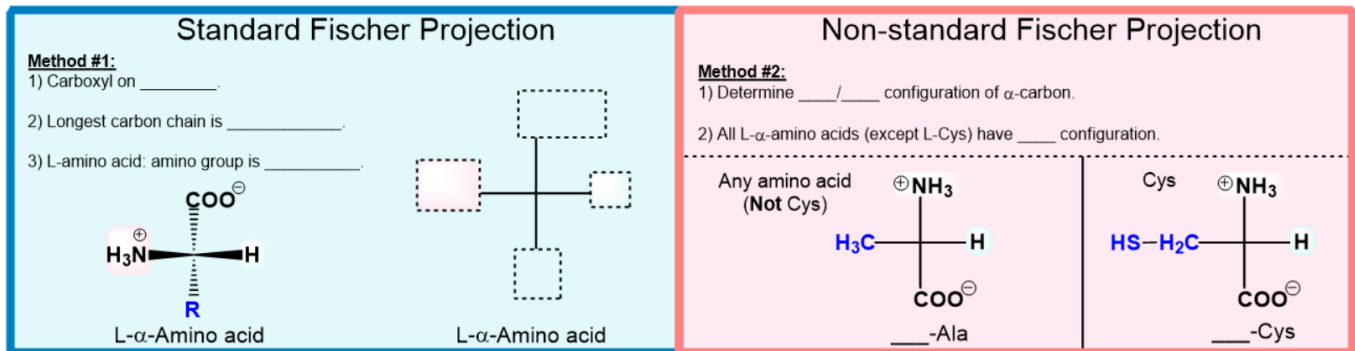


CONCEPT: AMINO ACID CONFIGURATION

- All α -amino acids (except glycine) are _____ & biochemists use _____ convention for amino acid chirality.
 - *Emil Fischer's convention*: ____ & ____ refer to the configuration of the chiral carbon.
- Life almost exclusively uses ____-amino acids for their proteins.
 - All L-amino acids (except for _____) have an S-configuration.
 - Chiral Center _____: R-group is always priority # ____ (except Cys's R-group = priority # 2).

EXAMPLE: Two Methods to Determine L/D Configuration of Amino Acids.



PRACTICE: Which of the following statements is true?

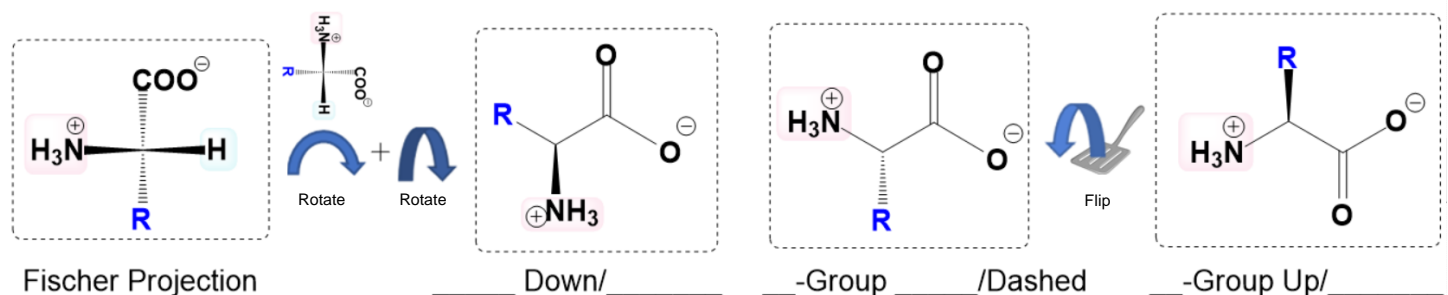
- Life predominantly uses D-amino acids to build proteins.
- Except for Ser, life predominantly uses S-amino acids to build proteins.
- All L-amino acids have an S configuration.
- Life almost exclusively uses L-amino acids to build proteins.

Other L-Amino Acid Representations

- There are several ways to represent L-amino acids:

EXAMPLE:

L- α -Amino Acid Representations:



PRACTICE: Which of the following shows an L-amino acid?

