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A bottle of iodo-norbornane carboxylic acid contains a mixture of two diastereomers, **A** and **B**. You make the sodium salts of the carboxylic acids and only one of the isomers reacts to form a new compound, **C**. The other isomer does not react and remains the sodium salt.

- a. Draw the structure of compound C.
- **b.** Is C the product of A or B?
- **c.** Provide a one to two sentence mechanistic explanation for why one of the carboxylates reacts to form a new compound and the other does not

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