$$F([A_1]) \otimes \cdots \otimes F([A_n]) \xrightarrow{\eta_{[A_1]} \otimes \cdots \otimes \eta_{[A_n]}} G([A_1]) \otimes \cdots \otimes G([A_n])$$

$$P_1 \downarrow \cong \qquad \qquad \cong \downarrow P_2$$

$$F([A_1, \dots, A_n]) \xrightarrow{\eta_{[A_1, \dots, A_n]}} G([A_1, \dots, A_n])$$