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Convenient syntheses of orthogonally protected aminocyclopentitols from aldopentoses

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D(-)-ribose: 3*R*, 4*S*, 5*R*
 L(+)-ribose: 3*S*, 4*R*, 5*S*
 D(-)-lyxose: 3*S*, 4*R*, 5*R*

From D(-)-ribose: 1*R*, 2*R*, 3*S*, 4*R*
 From L(+)-ribose: 1*S*, 2*S*, 3*R*, 4*S*
 From D(-)-lyxose: 1*R*, 2*S*, 3*R*, 4*S*

Overall yield: 11-22%

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