**ENVIRONMENT**

- Empower 3
- Empower 2

**ANSWER**

1. The math is illustrated in Help in the Columns Calculator v2.0.

![Screenshot of Columns Calculator](image1.png)

2. Create custom sample fields for Column Diameter, Column Length, and Porosity Factor. In this case, we use a column with a length of 15 cm, an internal diameter of 0.46 cm, and a porosity factor of 0.66.

![Screenshot of custom sample fields](image2.png)

3. Create a custom Result field to calculate Column Volume.

![Screenshot of custom Result field](image3.png)
4. Create a custom Result field to calculate Void Volume.

5. Empower calculates the Void Volume in mL, and you can enter the value in the Processing Method on the Suitability tab.
6. We now have accurate calculations for K Prime and Selectivity.

It's that easy!

Final note: This procedure can be followed using the QuickStart or Pro interface.