

Theoretical plate estimates indicates column condition - Primer

One can estimate a reasonable plate number for any column as:

$$N \approx 300 L/dp$$

L is the column length (in millimeters) and dp is the particle diameter (in micrometers).

For example for 250mm x 4.6mm column packed with 5 micron particles, the predicted value is:

$$N \approx 15,000$$

If the measured value of N is about 20% of this predicted value, the column is in good condition.



Printed from the Chrom Resource Center
Copyright 2025, All Rights Apply
MicroSolv Technology Corporation
9158 Industrial Blvd. NE, Leland, NC 28451

Tel: (732) 380-8900
Fax: (910) 769-9435
Email: customers@mtc-usa.com
Website: www.mtc-usa.com