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$$X_{ijkl} = \mu + \sigma_i + \sigma_j + \sigma_k + \sigma_l + \sigma_{jk} + \sigma_{jl} + \sigma_{kl} + \sigma_{jkl} + e_{ijkl}$$

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( $X_{ijkl}$ )

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( $\sigma_j$ )

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( $\sigma_i$ )

( $\sigma_l$ )

( $\sigma_k$ )

( $\sigma_{jk}$ )

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( $e_{ijkl}$ )

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1. Degussa

2. Ion Exchange Chromatography







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