

Revised  
and Expanded!

# Basic Method Validation

## 3rd Edition

Training in Analytical  
Quality Management for  
Healthcare Laboratories

James O. Westgard, Ph.D.

Westgard  
QC



### ANALYTICAL ERRORS



### SYSTEMATIC ERRORS



### EXPERIMENTAL PLAN

| Test of Error | Experiment    |                    |
|---------------|---------------|--------------------|
|               | Test Method   | Comparative Method |
| Accuracy      | 1. Accuracy   | 2. Accuracy        |
| Precision     | 3. Precision  | 4. Precision       |
| Linearity     | 5. Linearity  | 6. Linearity       |
| Stability     | 7. Stability  | 8. Stability       |
| Robustness    | 9. Robustness | 10. Robustness     |

### COMPARISON PLOT



### DIFFERENCE PLOT



# Basic Method Validation 3rd Edition

**Harald Renz, Rudolf Tauber**



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