

## Insulin Aspart (Novolog®) – PK ELISA

Cat# SB-07-052

For the quantitative determination of insulin aspart in human serum and plasma

<b>Description</b>	The Somru Insulin Aspart PK ELISA is a sandwich enzyme immunoassay in which two monoclonal antibodies are directed against separate epitopes on the Aspart molecule.																										
<b>Detection Method</b>	Colorimetric																										
<b>Storage</b>	Kit ships at 2 to 8°C. Multiple storage temperatures upon arrival.																										
<b>Calibrator</b>	Recombinant human insulin																										
<b>Assay range</b>	3-100 µU/mL																										
<b>Sensitivity</b>	3 µU/mL																										
<b>Precision</b>	Intra-assay precision ranges from 5 to 9%. Inter-assay mean precision is 11%. Determined by analysis of samples at 20 µU/mL in 6 replicates, on 6 different occasions.																										
<b>Accuracy</b>	Determined by analyzing three levels of quality control samples in 6 replicates on 6 different occasions. The Mean %bias is ≤ 20%.																										
<b>Total Error</b>	Calculated by adding the mean %bias with inter-assay variability (%CV). The Total Error is ≤ 20%																										
<b>Crossreactivity</b>	<table> <tr><td>Insulin</td><td>100 %</td></tr> <tr><td>C-peptide</td><td>&lt; 0.1 %</td></tr> <tr><td>Proinsulin</td><td>54 %</td></tr> <tr><td>Insulin lispro</td><td>102 %</td></tr> <tr><td>Insulin aspart</td><td>100 %</td></tr> <tr><td>Insulin determir</td><td>25 %</td></tr> <tr><td>Insulin glargine</td><td>45 %</td></tr> <tr><td>Insulin glulisine</td><td>111 %</td></tr> <tr><td>Rat insulin</td><td>75 %</td></tr> <tr><td>Mouse insulin</td><td>54 %</td></tr> <tr><td>Porcine insulin</td><td>71 %</td></tr> <tr><td>Ovine insulin</td><td>108 %</td></tr> <tr><td>Bovine insulin</td><td>48 %</td></tr> </table>	Insulin	100 %	C-peptide	< 0.1 %	Proinsulin	54 %	Insulin lispro	102 %	Insulin aspart	100 %	Insulin determir	25 %	Insulin glargine	45 %	Insulin glulisine	111 %	Rat insulin	75 %	Mouse insulin	54 %	Porcine insulin	71 %	Ovine insulin	108 %	Bovine insulin	48 %
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## Product Specification Data Sheet

<b>Interpretation of Results</b>	A calibration curve is constructed by plotting the absorbance values on a 4-point parameter fit curve. The concentration of insulin aspart in test samples is interpolated from the calibration curve.
<b>Safety Warnings and Precautions</b>	All reagents and samples should be handled as if potentially hazardous and infectious. It is recommended that all kit reagents are handled by trained laboratory staff and are used in accordance with GLP.