Measurement of Trypsin Enzyme Activity	
INTRODUCTION	
Trypsin is a kind of digestive enzyme found in pancreas and used for antiflatulents and amino acid sequence analysis. The enzyme activity is determined based on the change in the absorbance per time unit when an enzyme decomposes a substrate. The larger the change in the absorbance (slope), the higher the enzyme activity. When the activity of a commercially available trypsin was calculated, it was found to be 3700 trypsin unit/mg indicating that the value claimed by the manufacturer (3500 trypsin unit/mg or higher) was satisfied. The activity level can be easily calculated by using the rate calculation function.	
METHOD	PREPARATION
Measurement method: Trypsin (from bovine pancreas, Wako Pure Chemical Industries)	Refer to the next page (sheet No. UV090015-02).
Analyte : In accordance with Japanese Pharmacopoeia 15th edition, Crystalline Trypsin for Ulinastatin Assay	
INSTRUMENT CONDITIONS	
Instrument : U-3900H spectrophotometer	
Scan speed : 300 nm/min Change over time	
Slit : 5 nm Measurement wavelength : 253 nm	
0.70 0.70 0.60 0.50	
開始時間 0.0 s Set K 7 r/h 166666.7 終了時間 60.0 s Set 更新	_
	━┛ 、 生度 I R R2
0.0 60.0 166666.7 0.022227 3704.6 0.99995 0.9999	
Calculation Result of Activity	
KEY WORDS Bio·Medical Science·Food·Pharmaceutical, Medicine·Pharmaceutical,	Spectrophotometer (UV)
Other Bio Medical Science Food Pharmaceutical Related, Trypsin, Enzyme Activity, Absorbance Spectrum, Biochemistry, 10 mm Cell, UV, U-2910, U-3900, U-3900H, U-2800, U-3010, U-3310	Sheet No. UV090015-01

Hitachi High-Technologies Corporation

