

Residual Protein Trypsin Kit

Complete manufacturing solutions for improved product safety

Trypsin used in a biopharmaceutical manufacturing process — during cell preparation or for the modification and activation of products — must be completely removed before final product release. Other methods used to detect trypsin are based on measuring its enzymatic activity, failing to detect inactive protein fragments which still can be immunogenic.

To enhance product safety, Roche CustomBiotech has introduced high-performance kits based on ELISA technology to reliably detect complete and fragmented trypsin residue, independent of enzymatic activity.

The **Residual Protein Trypsin Kit** includes high-affinity polyclonal antibodies that detect the presence of trypsin protein with high sensitivity and in a broad range of sample matrices and types. Combining these kits with Roche animalfree, GMP Grade enzymes augments production efficiency, from the use of high-activity enzymes to timely verification of their clearance.

Benefit from:

- Sensitive detection of enzymes and enzyme fragments in process samples and final biopharmaceutical products to increase product safety.
- Reliable control due to activity-independent detection.

Residual Protein Trypsin Kit features:

High specificity

Antibodies raised specifically against Roche Trypsin, rec., GMP Grade.

High sensitivity

Limit of detection is 0.5 ng/ml.

Reliability

High lot-to-lot consistency of kit reagents, leading to reproducible results.

Convenience

All-inclusive reagent kits with pre-coated plates, controls, and standards.

Fast turnaround time

Time-to-result: 2 - 2.5 hours.

Test characteristics for Trypsin detection*

	Specification	Typical performance
Sensitivity	0.5 ng/ml	<0.5 ng/ml
Measuring range	0.5 – 50 ng/ml	
Precision	≤15%	<4%
Accuracy (vs. weight)	≤25%	<10%
Specificity	Trypsin, rec., expressed in <i>Pichia pastoris</i> *	
Assay time (h:min)	2:00 to 2:30 total assay time	
Test format	96 reactions can be split into	2 runs

^{*}Compatibility with enzyme formulations from other suppliers must be verified.

Ordering information

Product	Catalog Number		
Residual Protein Trypsin Kit (96 reactions)	07 568 975 001		
Related products			
Trypsin, rec., GMP Grade (expressed in <i>Pichia pastoris</i> , 1 g = 0.23 MU)	06 369 880 103		
Trypsin, rec., GMP Grade (expressed in <i>Pichia pastoris</i> , 3.5 MU)	03 358 658 103		
Additional quality control/in-process manufacturing kits			
Residual DNA E. coli Kit (96 reactions)	07 728 735 001		
Residual DNA CHO Kit (96 reactions)	07 427 689 001		
MycoTOOL Mycoplasma Real-Time PCR Kit (160 PCR reactions)	06 495 605 001		
QC Sample Preparation Kit	08 146 829 001		

Regulatory disclaimers, warranty limitations and legal notes

are listed on the respective product page on custombiotech.roche.com

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