

## Propelling cell and gene therapies from concept to commercialization

Our commitment to next-generation manufacturers: high-quality, well-characterized raw materials



# Advancing healthcare with tailored solutions

Roche CustomBiotech is your dedicated partner in manufacturing cell and gene therapies

Cell and gene therapies have the potential to revolutionize healthcare, by offering unprecedented treatment possibilities.\* At Roche CustomBiotech, we understand the technical complexity involved in implementing transformative advanced therapy medicinal products (ATMPs). Our commitment is to be your dedicated partner in providing tailored solutions for manufacturing advanced therapeutics. By utilizing precisely defined and scalable raw materials, coupled with robust quality control solutions, we support manufacturing efficiency while ensuring compliance with regulatory requirements. Located in our state-of-the-art biotechnology facility in Penzberg, Germany, we combine the expertise of pharma and diagnostics with decades of experience in producing high-quality raw materials. Join us in advancing cell and gene therapies from cell isolation to quality control release testing.

Quality Control					
Isolation		Modification	Expansion	Quality Control	
Collagenases DNase I Collagenase Activity Test	PI t Kit Ce Ce Re	asmid Production edex® Bio Analyzer edex® Bio HT Analyzer sidual DNA <i>E. coli</i> kit	Cedex® Bio Analyzer Cedex® Bio HT Analyzer Trypsin Residual Protein Trypsin Kit	Cedex <sup>®</sup> Bio Analyzer Cedex <sup>®</sup> Bio HT Analyzer QC Sample Prep Kit MycoTOOL RT-PCR Kit Residual DNA <i>E. coli</i> Kit	
Residual DNA E. coli kit Viral Vectors mRNA Cedex® Bio Analyzer Cedex® Bio HT Analyzer RNA Polymera Pyrophosphat Ribonucleotide Modified Ribon (N1-Methylpse RNase Inhibito DNase I Proteinase K Xba I		es T7 & SP6 ise s (ATP,CTP,GTP,UTP) ucleotides udo UTP, Pseudo-UTP)			

# High-quality enzymes for cell isolation and clarification

## Maximize yields of viable cells with our DNase I and Collagenases



- Detect enzymatic activity of collagenases
- Rely on reproducible results due to included calibration standards and the kit's high lot-to-lot consistency

## Raw materials for mRNA therapeutics

Leverage our expertise with GMP Grade and fit-for-purpose mRNA reagents



## High-quality enzymes for gentle cell detachment after culture expansion

### Gain certainty with GMP Grade and recombinant Trypsin



ensured for further downstream processing

# Complete solutions for reliable in-process control

Take control of your cell and gene therapy bioprocess with Cedex<sup>®</sup> Analyzers



• Broad and expandable test menu

• Accurate determination of substrate and metabolite levels in low-volume samples of cell cultures



For use in quality control/manufacturing process only.

resources for safer and more effective therapies. In addition, in

therapy is essential for managing the scalability of therapies and

process control during the viral vector production in gene

achieving desired therapeutic outcomes.

### Cedex<sup>®</sup> assay menu

Powerful, flexible and comprehensive cell culture profiling



Additional assays are in development. Visit custombiotech.roche.com/cedex for updates. For use in quality control/manufacturing process only.

# Rapid and reliable quality control kits

## Deliver constant product quality with proven ready-to-use control solutions

#### **Quality Control** Isolation Modification Expansion **Quality Control** Fast, sensitive and reliable analytical quality control is of growing importance for development of cell and gene therapy therapy MycoTOOL Mycoplasma Real-Time PCR Kit development. Since mycoplasma contamination evidently affects cell cultures, testing for mycoplasmas has increasingly become regulated by authorities. Fast and reliable mycoplasma detection is crucial in manufacturing workflows to ensure the quality and Process control in cell and gene therapy development safety of cell-based medicinal products to patients. Additionally, Fast and reliable mycoplasma detection the residual DNA E. coli kit is a vital tool for quality control. This Ensure quality and safety of cell-based medicinal products kit enables the accurate quantification of residual host cell DNA, • Utilization of nucleic acid amplification techniques (NAT) and thereby further enhancing the overall reliability of the plasmid highly specific probes to detect over 150 cultivable and nonproduction process. cultivable mollicute species • Validation of the kit according to Ph. Eur. 2.6.7 NAT guidelines Efficiency through small sample size and a significantly shorter time frame for testing Residual DNA E. coli Kit Vital tool for quality control Accurate quantification of residual host cell DNA Enhancing the overall reliability of the plasmid production process QC Sample Prep Kit

Regulatory disclaimers and warranty limitations on product level are listed on page 9 - 11.

- Designed for use with the MycoTOOL Mycoplasma Real-Time PCR Kit
- Compatible with the Residual RNA E. coli Kit
- Fast and efficient sample preparation for PCR tests through optimized extraction protocols

## We supply your next step

About us - discover Roche CustomBiotech

As part of global biotechnology company Roche we are a leading supplier of innovative, high-quality raw materials and solutions to forward-thinking biopharma and diagnostics businesses.

Based in one of Europe's largest and most productive biotechnology centres, at the Roche site Penzberg, Germany, we provide access to tailored solutions that meet the highest standards in quality, safety and regulatory requirements: from ISO-certified quality management to GMP, animal-free and antibiotic-free production of excipients, raw materials, kits and bioprocessing instruments.

Our goal is to support our customers as they develop and manufacture valuable new products and services and deliver better healthcare outcomes.



Please scan to discover more about CustomBiotech



## CustomBiotech cell & gene therapy raw materials portfolio

Isolation		
DNase I, rec., GMP Grade, AOF <sup>1</sup>	320 mL 200 kU	09 852 093 103 09 873 562 001
Collagenase I <sup>2</sup>	custom fill	05 172 969 103
Collagenase II <sup>2</sup>	custom fill	05 172 942 103
Collagenase I/II <sup>4</sup>	1 bottle	05 349 907 103
Collagenase Activity Test Kit <sup>3</sup>	96 reactions	08 074 461 001

#### Modification

T7 RNA Polymerase, rec., GMP Grade, AOF <sup>2</sup>	10 mL (ca. 10 mg)	08 140 669 103
SP6 RNA Polymerase, GMP Grade AOF <sup>1</sup>	25 mL (ca. 50 mg)	09 959 513 103
Pyrophosphatase, rec., GMP Grade, AOF <sup>2</sup>	20 mL (ca. 40 mg)	08 140 677 103
ATP, 100 mM, pH 8.3, GMP Grade, AOF <sup>1</sup>	100 mL	09 744 363 103
CTP, 100 mM, pH 8.3, GMP Grade, AOF <sup>1</sup>	100 mL	09 745 092 103
GTP, 100 mM, pH 8.3, GMP Grade, AOF <sup>1</sup>	100 mL	09 745 173 103
UTP, 100 mM, pH 8.3, GMP Grade, AOF <sup>1</sup>	100 mL	09 745 343 103
N1-Methyl-Pseudo-UTP,	100 mL	09 744 878 103
GMP Grade, AOF <sup>2</sup>	0.1 mL	09 744 762 103
Pseudo-UTP,	100 mL	09 754 334 103
AOF <sup>2</sup>	0.1 mL	09 538 798 103
RNase Inhibitor, rec., GMP Grade,	100 kU	09 537 643 103
AOF <sup>2</sup>	2 MU	09 537 589 103
DNase I, rec., GMP Grade,	320 mL	09 852 093 103
AOF <sup>1</sup>	200 kU	09 873 562 001
Proteinase K, PCR Grade <sup>2</sup>	850 mL	03 654 672 103
Xba I,	5 mL (50 kU)	09 520 848 101
AOF <sup>2</sup>	25 mL (250 kU)	09 520 848 103

### Expansion

Trypsin, rec., GMP Grade <sup>2</sup>	3.5 MU 1 g = 0.23 MU	03 358 658 103 06 369 880 103
Residual Protein Trypsin Kit <sup>5</sup>	1 kit (96 reactions)	07 568 975 001

### Quality Control

Cedex® Bio Analyzer*3	1 instrument with software and accessories	06 395 554 001
Cedex® Bio HT Analyzer*3	1 instrument with software and accessories	06 608 116 001
QC Sample Preparation Kit <sup>3</sup>	1 kit	08 146 829 001
MycoTOOL Mycoplasma Real-Time PCR Kit <sup>3</sup>	1 kit (160 PCR reactions)	06 495 605 001
Residual DNA <i>E. coli</i> Kit <sup>3</sup>	96 reactions	05 196 132 103

\*Depending on the application, several system reagents and test-specific kits are required.



Please scan to see the entire portfolio

#### **Regulatory disclaimer**

<sup>1</sup> For further processing into medical devices, IVD and pharmaceutical products only. Warranty limitation applies:

It is the sole responsibility of the customer to determine the suitability of all raw materials, products and components in order to ensure that the final end-use product is safe for its end use; performs or functions as intended; and complies with all applicable legal and regulatory requirements. Roche makes no representations or warran ties of any kind regarding the Product, express or implied, other than those expressly set forth in the terms and conditions of sale (if any), and disclaims all implied or statutory warranties including warranty of merchantability and fitness for a particular purpose.

<sup>2</sup> For further processing only.

<sup>3</sup> For use in quality control/manufacturing process only.

<sup>4</sup> Blended proteolytic enzyme for tissue dissociation. For further processing only.

<sup>5</sup> For quality control/manufacturing of IVD/medical devices/pharmaceutical products only.

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