

# TheraPEAK™ X-VIVO™ Hematopoietic Cell Culture Medium

## Serum-free, GMP produced medium for cell therapy applications

TheraPEAK™ X-VIVO™ Media are a high performing media series providing nutritionally adequate and balanced environments for a variety of hematopoietic cells including:

- T cells
- Natural killer cells (NK)
- Peripheral blood lymphocytes (PBL)
- Tumor infiltrating lymphocytes (TIL)
- Dendritic cells (DC)

TheraPEAK™ X-VIVO™ Media are widely cited in scientific publications and are proven to reliably work in many cell therapy applications around the world, from research stages, to clinical trials, to FDA-approved cell therapies.

Supported with protocols, application data and our world-class scientific support team, these media allow you to successfully generate patient treatments for numerous indications.

### Features and benefits

- Reduced variables with serum-free formulation
- Produced according to current GMP guidelines ensuring safe insertion to clinical processes
- Multiple formulations allowing seamless transition into customer specific processes
- Custom packaging available to meet scale up need
- Easy-to-use formulation only requiring addition of cytokines



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## GMP quality

Quality and safety are crucial to allow reliable results in clinical processes and ultimately, protect patients' lives. Lonza is dedicated to providing high quality cell and gene therapy products for global customers via our TheraPEAK™ Line of media and reagents. All TheraPEAK™ X-VIVO™ Media are manufactured according to regulations for medical devices including 21 CFR Part 820. Our manufacturing sites are FDA registered with an ISO 13485 certified quality management system. GMP formulations for further manufacturing use do not contain gentamicin and phenol red.

## Research use formulations

In addition to our GMP produced TheraPEAK™ X-VIVO™ Media, we also provide an extensive portfolio of research use only (RUO) formulations. Please contact scientific support for additional information regarding RUO X-VIVO™ Media.

You may as well be interested in our extensive portfolio of high quality, research grade, primary blood and immune cells including mobilized blood, fresh leukopaks, and whole blood.

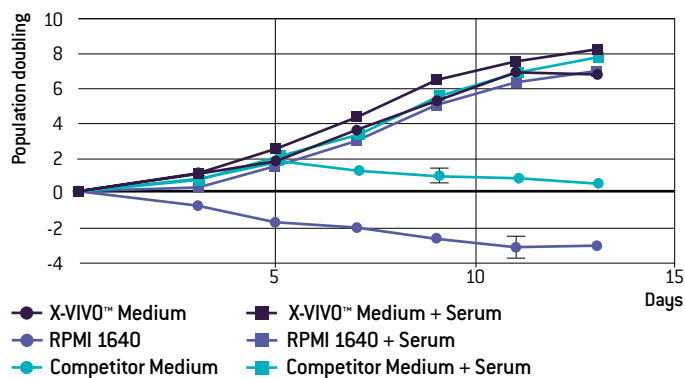
## Place your order or contact us for further info

### Product ordering information

Cat. No.	Description	Size
<b>TheraPEAK™ X-VIVO™ Medium with recombinant transferrin</b>		
BEBP02-055Q	TheraPEAK™ X-VIVO™ 10 with recombinant transferrin, without phenol red and gentamicin	1 L (bottle)
BEBP02-054Q	TheraPEAK™ X-VIVO™ 15 with recombinant transferrin, without phenol red and gentamicin	1 L (bottle)
<b>TheraPEAK™ X-VIVO™ Medium with human native transferrin</b>		
BP04-743Q	TheraPEAK™ X-VIVO™ 10 with human native transferrin, without gentamicin and phenol red	1 L (bottle)
BEBP04-743Q	TheraPEAK™ X-VIVO™ 10 with human native transferrin, without gentamicin and phenol red	1 L (bottle)
08-879H	TheraPEAK™ X-VIVO™ 15 with human native transferrin, without gentamicin and phenol red	5 L (bag)
BE08-879H	TheraPEAK™ X-VIVO™ 15 with human native transferrin, without gentamicin and phenol red	5 L (bag)
BEBP02-061Q	TheraPEAK™ X-VIVO™ 15 with human native transferrin, without gentamicin and phenol red	1 L (bottle)
BEBP04-744Q	TheraPEAK™ X-VIVO™ 15 with human native transferrin, without gentamicin and phenol red	1 L (bottle)
BP04-744Q	TheraPEAK™ X-VIVO™ 15 with human native transferrin, without gentamicin and phenol red	1 L (bottle)

Customization of packaging for specific applications is available. Please contact Scientific Support for additional information.

## Optimal performance of your hematopoietic cells



Primary human CD4 and CD8 T cells were mixed at a 1:1 ratio, activated with CD3/28-coated beads, and cultured in RPMI, Competitor Medium and X-VIVO™ 15 medium with no serum (circles) and with serum (squares). The population doubling rate was measured by cell counting on the days indicated by a symbol. Error bars represent SEM. Adapted from Medvec R. et al. *Improved Expansion and In Vivo Function of Patient T Cells by a Serum-Free Medium. Molecular Therapy: Methods & Clinical Development. Volume 8, P65-74. March 2018. https://doi.org/10.1016/j.omtm.2017.11.001, CC BY 4.0.*

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