

HIMEDIA®

For Life is Precious

PLANT BASED PEPTONES

Animal-free

HiVeg™

JOIN THE GREEN REVOLUTION!

Since 2014 the European Pharmacopoeia recommends:

“When manufacturers have a choice, the use of materials from ’non TSE-relevant animal species‘ or non animal origin is preferred.”

(Source: EP 8.0, 2014, Section 5.2.8)

This line of thinking fired the imagination of HiMedia‘s research team some years ago.

The results came soon in the shape of the world‘s first range of vegetable peptones which were 100% animal free. These were standardized against the results obtained from animal based peptones.

In the meanwhile, HiMedia has experience of more than 20 years in making HiVeg™ plant based media.

Why HiVeg™?

Plant based material will avoid issues like

- Transmission Spongiform Encephalopathies (TSE) and Bovine Spongiform Encephalopathies (BSE)
- Diseases of the brain and nervous system of humans and animals

Growth rates, doubling time and recovery rates of HiVeg™ media are similar to media using animal derived peptones without reduction in performance.



To produce 1.700 t Peptones it needs

animal based		plant based
57.000 cattle slaughtered		**0** cattle slaughtered
110.000 t of grain to feed cattle		**8.500 t** of grain for production
10,2 billion l of water for the cattle		**0,06 billion l** of water for the grain
27,5 million kg CO_2 emission		**2,13 million kg** CO_2 emission

1 kg HiVeg™ Agar saves
8 kg CO_2

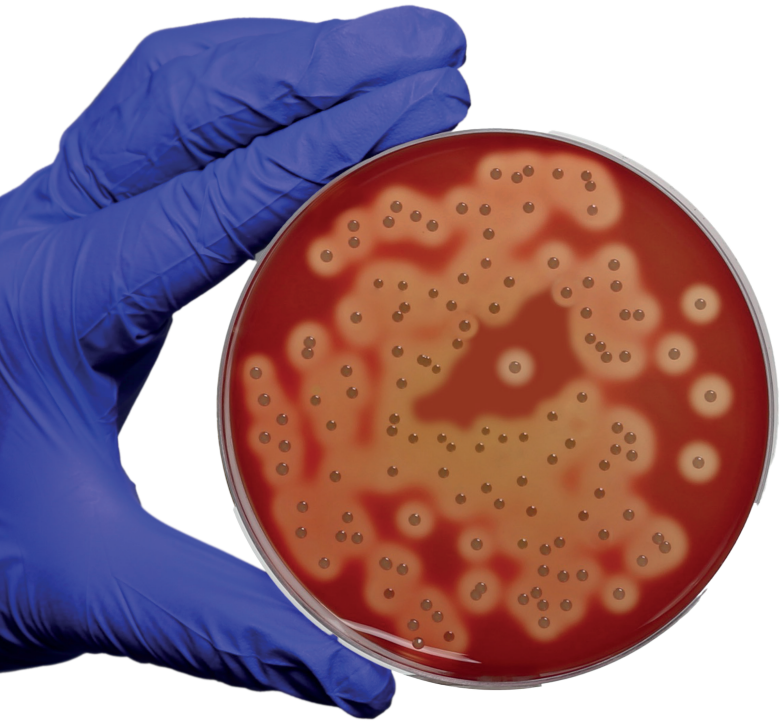
Reduce the carbon footprint generated by animal peptones by choosing the eco-friendly, high yielding and comprehensive range of plant peptones from HiMedia.

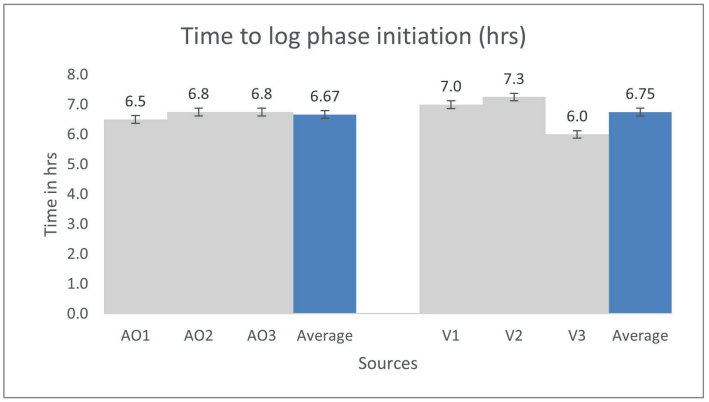
Growth parameters *S. aureus* ATCC 6538

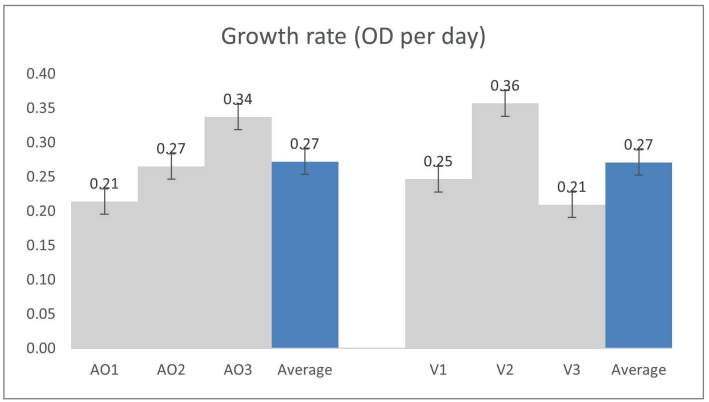
Aim: Demonstrate the equivalency of growth promoting properties of animal based and vegetable based nutrient medium

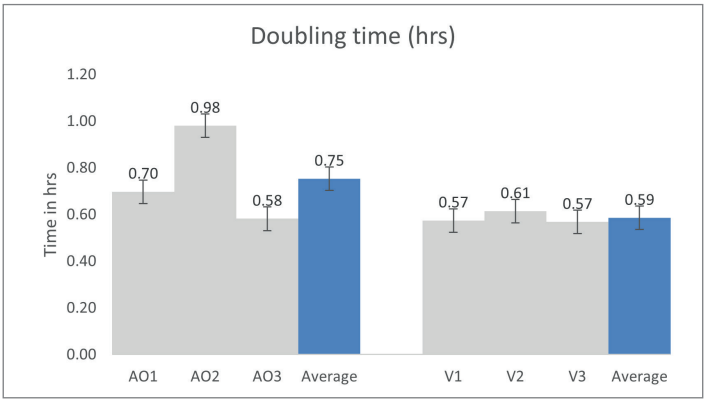
Experiment: A study was carried out for 3 different lots (n=3) of M001 animal based (A01, A02, A03) and MV001 HiVeg™ based (V1, V2, V3) nutrient medium with a total of 8 cultures, 5 standard ATCC cultures and 3 environmental isolates

Similar growth performance compared with four other standard ATCC cultures:
- *E. coli* ATCC 8739,
- *P. aeruginosa* ATCC 9027,
- *M. luteus* ATCC 10240
- *K. rhizophila* ATCC 9341

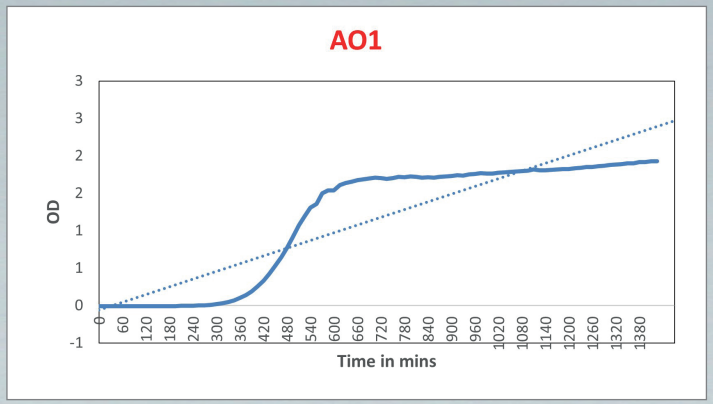


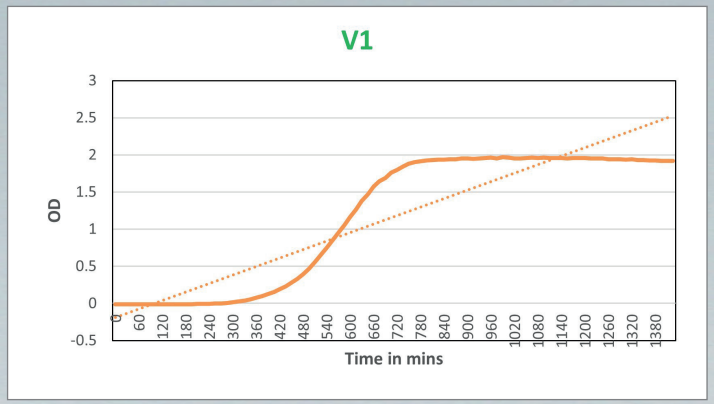


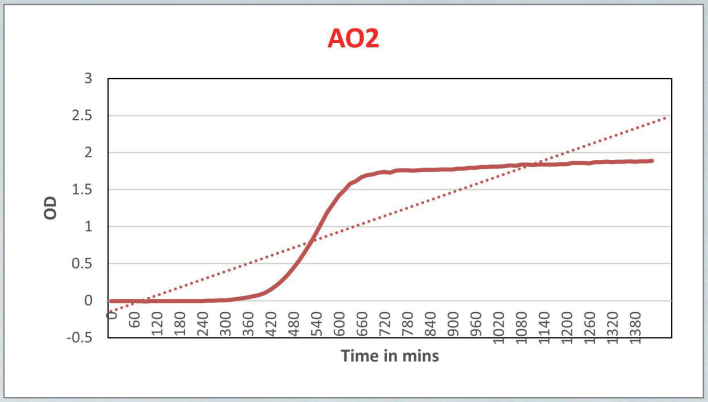


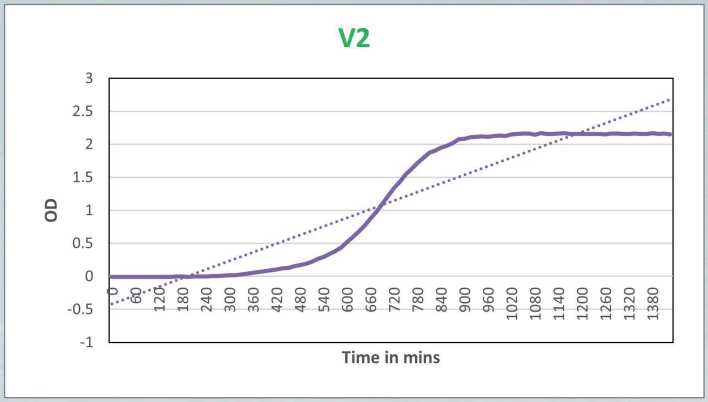


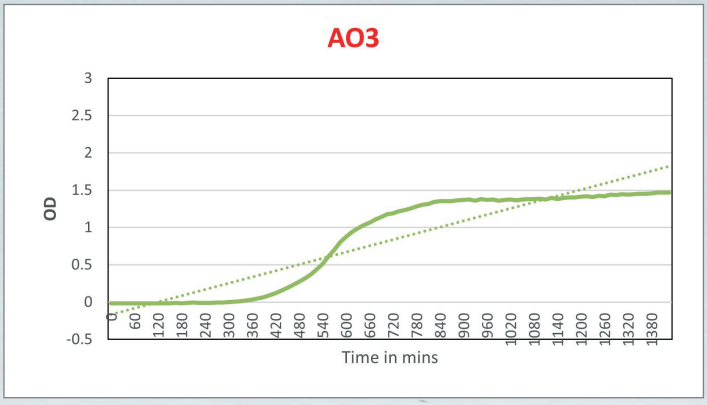
Growth curve *S. aureus* ATCC 6538

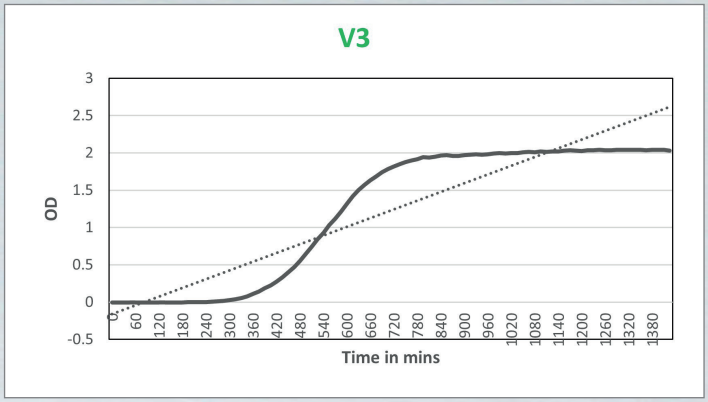








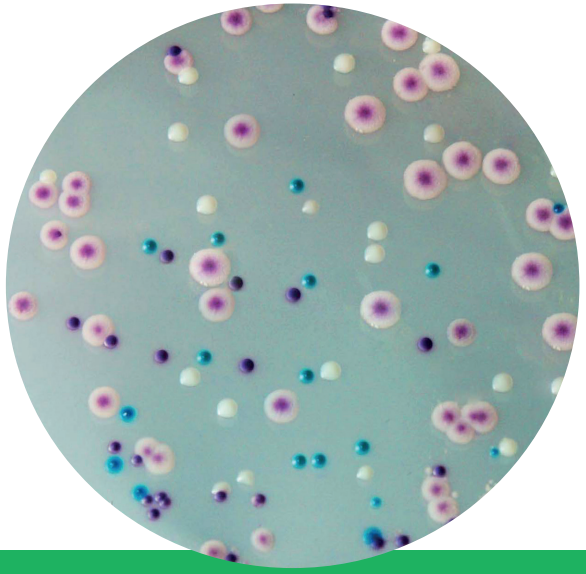




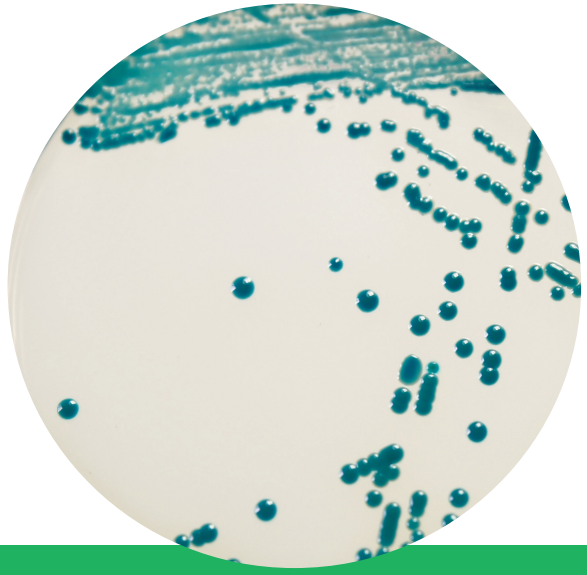
See how it grows!

The Hicrome range of our HiVeg™ media enables you to differentiate the germ of interest by the colour change and without having the risk of TSE/BSE contamination.

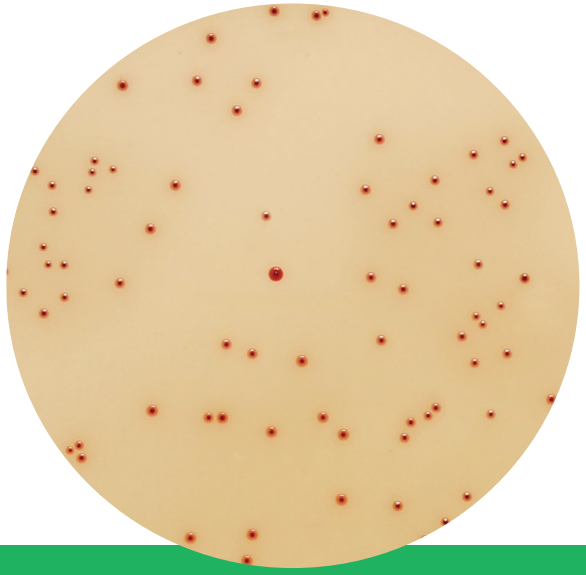
The chromogens serve as substrate which is cleaved by specific enzymes produced by growing bacteria and/or fungi. The growth performance on HiVeg™ plates is as good as with media produced with animal based peptones.



MV1297A HiCrome Candida Differential HiVeg™ Agar
Green = *Candida albicans* ATCC 10231
Blue to violet = *Candida tropicalis* ATCC 750
White = *Candida glabrata* ATCC 15126
Purple, fuzzy = *Candida krusei* ATCC 24408



MV1418 HiCrome UTI HiVeg™ Agar, Modified
Klebsiella pneumoniae ATCC 13883



MV582 HiVeg™ Medium Base
Strain Lactobacillus bulgaricus (Isolate)

Feed two birds with one seed

With HiVeg™ granulated you can help the planet while saving CO_2 and reduce the impact of dust on your personal health.

Media components in powdered media may lead to allergic responses if inhaled by personnel. Our unique granulation technology converts traditional powdered media into strong multi-particles. Granulated Media combine the advantage of safety with the ease of media preparation.

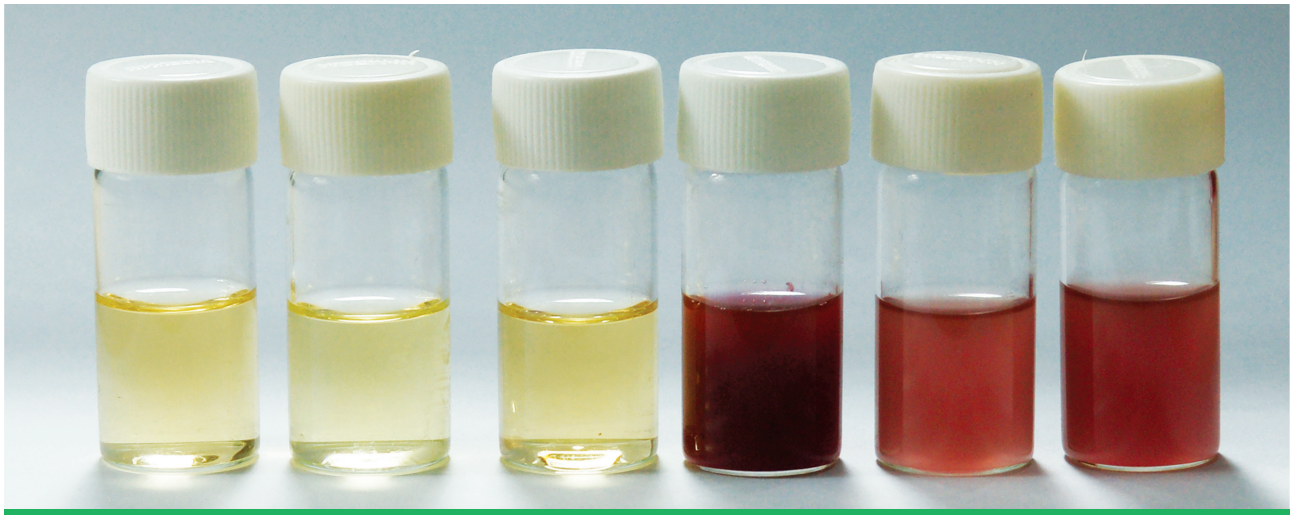
HiVeg™ Media are available in powdered or granulated form. They can be used for every purpose from research and development, diagnostics, industrial or pharmaceutical applications.



Switch to plant based Media Fill Trials

Why contaminate your sterile line with animal products?
Use HiFill™ HiVeg™ Media for swift and safe processes.

- Beneficial to pharmaceutical sectors
- Microbial contamination is indicated by very contrasting colour changes
- Easier method for detection of contamination with less time consumption
- In this line the HiFill™ Test Medium with the addition of Media Fill Trial (MFT) indicator, helps to verify the microbiological growth in aseptic production processes



The use of **MV2018G** simplifies your Media Fill trials. The medium contains an indicator, which helps to verify the microbiological growth in an aseptic production process. This can serve as an easier method for detection of contamination with lesser time consumption. The microbial contamination is indicated by a very contrasting colour change from slightly yellow (sterile) to maroon (unsterile).

Replace your peptones

Order No.	Plant Based Product
RM001V	HiVeg™ Peptone
RM635V	HiVeg™ Peptone No. 1
RM020V	HiVeg™ Peptone No. 2
RM005V	HiVeg™ Peptone No. 3
RM006V	HiVeg™ Peptone No. 4 (HiVeg™ Mycological Peptone)
RM021V	HiVeg™ Peptone No. 5
RM015V	HiVeg™ Special Peptone (HiVeg™ Peptone special)
RM002V	HiVeg™ Extract
RM003V	HiVeg™ Extract No. 1
RM326V	HiVeg™ Extract No. 2
RM014V	HiVeg™ Hydrolysate
RM030V	HiVeg™ Hydrolysate No. 1
RM023V	HiVeg™ Hydrolysate No. 2
RM275V	HiVeg™ Hydrolysate No. 3
RM012V	HiVeg™ Hydrolysate No. 4
RM028V	HiVeg™ Hydrolysate No. 6
RM013V	HiVeg™ Acid Hydrolysate
RM498V	HiVeg™ Acid Hydrolysate No.1
RM022V	HiVeg™ Infusion No. 1
RM188V	HiVeg™ Special Infusion
RM191V	HiVeg™ Infusion
RM192V	HiVeg™ Infusion No. 2
RM9149V	HiVeg™ Pea Hydrolysate
RM9150V	HiVeg™ Peptone F
RM2565	Oat Meal Powder
RM6406	Gluten Hydrolysate, Maize
RM007	Soya Peptone
RM027	Yeast extract

Order No.	Animal Based Product
RM001	Peptone, Bacteriological
RM635	HM Peptone (Meat Peptone)
RM020	Gelatin Peptone
RM005	Proteose Peptone
RM006	Peptone M (Mycological Peptone)
RM021	Bio Peptone
RM015	Peptone Special
RM002	HM Peptone B Powder (Meat Extract B Powder)
RM003	HM Extract Powder (Meat Extract Powder)
RM326	HL Extract powder (Liver Extract Powder)
RM014	Tryptone Type-1 (Casitose Type-1)
RM030	Tryptose
RM023	HL Hydrolysate (Liver Hydrolysate)
RM275	Peptonized SM Powder
RM012	Lactalbumin hydrolysate
RM028	Casitose, Type-II (Tryptone, Type II)
RM013	Acicase, Technical (Casein Acid Hydrolysate, Technical)
RM498	Acicase (Casein Acid Hydrolysate)
RM022	HL Infusion Powder (Liver Infusion Powder)
RM188	BHI Powder
RM191	HI Powder (Heart Infusion Powder)
RM192	HM Infusion Powder (Meat Infusion Powder)

With those plant based peptones
HiMedia Laboratories is producing more than
1.500 different HiVeg™ Media

Best reasons for HiVeg™ Media

Customization is our most important Unique Selling Proposition – media can even be adapted to your strain of choice



- A five ton single batch can be made available
- Majority of HiVeg™ are mentioned in “Handbook of microbiological media 4th edition” by American Society of Microbiology Publications
- We have the widest range of plant based peptones and media worldwide
- Our peptones are at par or superior to animal peptone sources in growth studies of gram negative and gram positive bacteria
- Easy bioavailability to microorganisms
- Granulated ranges are available for the majority of the powdered peptones and others can be provided in granulated form based on need
- NDA possible

HiVeg™-Media lead to satisfied customers in lots of sectors

- Food industry & Dairy industry: free of animal derived components (BSE/TSE)
- Fermentation industry
- Fermentation based Pharma and Biopharma, Vaccine industry
- Pharmaceutical industry: Pharmacopoeia recommends to use animal free components/products in case they exist (see page 2)
- Research and Development



World Class Manufacturing Facilities

The R&D and production facilities at HiMedia are truly world-class, equipped with the latest machines and instruments. Our capabilities display our potential to respond to customer needs with quality products and speed.

Our R&D unit houses advanced equipment, clean rooms and other up-to-date facilities to support its research mission.

Our production facility infrastructure is at par with the best in the world and bears strict adherence to international standards.

With high-tech facilities and a highly motivated team, we have been able to support our fellow scientists in research and industry with superior quality products that aid in reliable performance.

ISO 13485-2016 CERTIFIED

ISO 9001-2015 CERTIFIED

WHO GMP CERTIFIED

CE

Check out HiVeg™ online: hiveg.com

HIMEDIA®

For Life is Precious

HiMedia Laboratories GmbH
Odenwaldstr. 18A
64397 Modautal, Germany
Phone: +49 6254 959 22 21
infoeu@himedialabs.com

www.himedialabs.com

Microbiology | Animal Cell Culture | Plant Tissue Culture | Molecular Biology | Chemicals & Biochemicals | Lab Aids & Instrumentation

01.09.23