

ALyS series

ALyS™ 505N

免疫細胞療法研究用無血清培養液



ALyS
505N-0

IL-2
不含

組換えヒトインシュリン/
組換えトランスフェリン/
ヒトアルブミン含有

ALyS
505N-175

IL-2
175 IU/mL
含有

リンパ球後期培養に最適

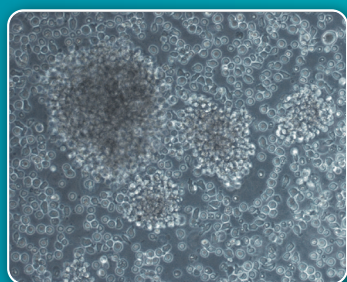
ALyS
505N-7

IL-2
700 IU/mL
含有

リンパ球初期培養に最適

ALyS
505N-10

IL-2
1000 IU/mL
含有



- 免疫細胞療法に最適な培養液
- ヒト末梢血T細胞で高い増殖を確認
- 異種動物由来タンパク質成分不使用

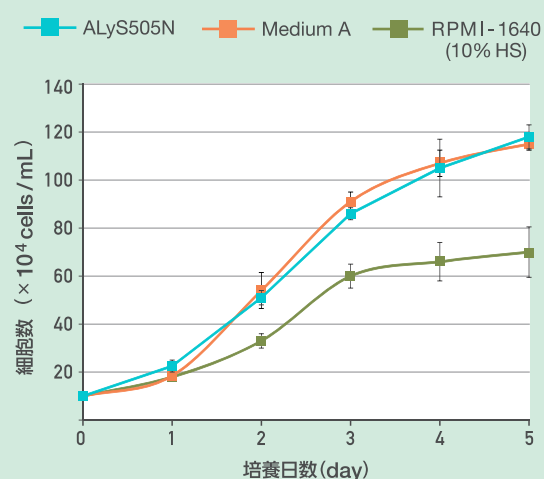
ALyS™ 505N

ALyS505Nは免疫細胞療法研究用に開発された無血清培養液です。血漿の使用量を大幅に削減しても高い増殖性能が期待できます。

- 抗CD3抗体や植物レクチン等を使用することで、活性化した末梢血Tリンパ球の高い増殖を支持します。(Fig.1)
- IL-2は用途に合わせて、[IL-2不含]、[IL-2 175 IU/mL]、[700 IU/mL]、[1,000 IU/mL] 含有の4種類があります。
- 含有するタンパク質は遺伝子組換えタンパク質と加熱処理済みヒト血清タンパク質です。異種動物由来タンパク質成分は使用しておりません。
- 血清の使用量の大幅な削減が可能になりました。少量の血漿添加 (0.1-2%) で、従来の血清添加培養液以上の細胞増殖効果が期待できます。
- ALyS505N培養液で末梢血リンパ球の初代培養(活性化培養)を行う場合、少量の血漿の添加 (1~5%) をお勧めします。
- 自己増殖を開始した後は血漿の添加は必要ありません。包装形態は、プラスチックボトル(P)とガス透過性カルチャーバッグ®(CB)があります。
- カルチャーバッグ®は、細胞培養に最適なガスを透過します。閉鎖系培養の実現により、コンタミネーションのリスクが低下し、さらに大量培養が可能です。



Fig.1 抗CD3抗体活性化リンパ球の増殖比較



製品コード (CSTI / NIPRO)	製品名	内 容	容 量(包装)
1020P10 / 87-661	ALyS505N-0	免疫細胞療法研究用無血清培養液 (IL-2 不含)	1,000mL (P)
1020C10 / 87-669			1,000mL (CB)
10217P10 / 87-654	ALyS505N-175	免疫細胞療法研究用無血清培養液 (IL-2 175 IU/mL)	1,000mL (P)
10217C10 / 87-598			1,000mL (CB)
1027P10 / 87-666	ALyS505N-7	免疫細胞療法研究用無血清培養液 (IL-2 700 IU/mL)	1,000mL (P)
10210P10 / 87-676	ALyS505N-10	免疫細胞療法研究用無血清培養液 (IL-2 1,000 IU/mL)	1,000mL (P)

(P) PET bottle (CB) Culture Bag

※本品は研究用試薬です。治療・診断目的ではご使用になれません。

ALyS series

ALyS™ 505NK-AC&EX

for human NK cells



For expansion

culture bag product available

without IL-2

ALyS505NK
-EX

with IL-2 1000 IU/mL

ALyS505NK
-EX1000

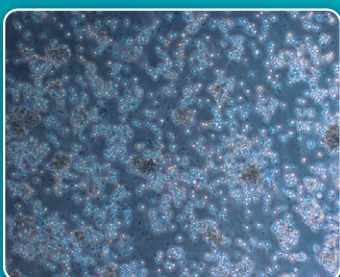
For activation

without IL-2

ALyS505NK
-AC

with IL-2 1000 IU/mL

ALyS505NK
-AC1000



- Specially designed for human NK cells
- Achieves much number of NK cells and a high NK cell ratio

Serum-free medium for NK cells

ALyS™ 505NK-AC&EX

ALyS505NK-AC and -EX are serum-free medium optimal for NK cell therapy.

- Achieve a highly-pure NK cell rate.
- It contains human derived proteins.
Any other animal derived component free.



Performance data of ALyS505NK-AC&EX *

* ALyS505NK-AC1000 / ALyS505NK-EX1000

Fig.1 Robust proliferation

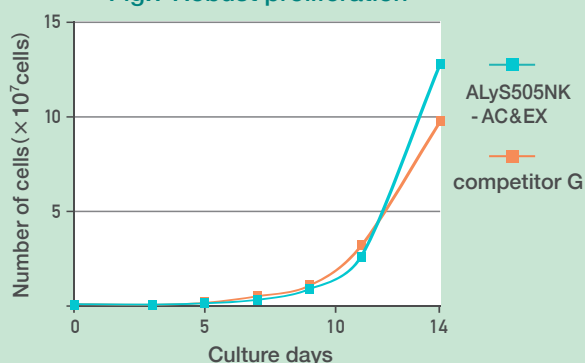


Fig.2 Number of NK cells at the day 14th

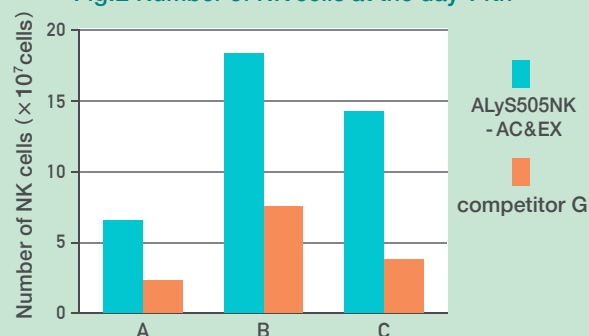


Fig.3 Ratio of NK cells and T cells

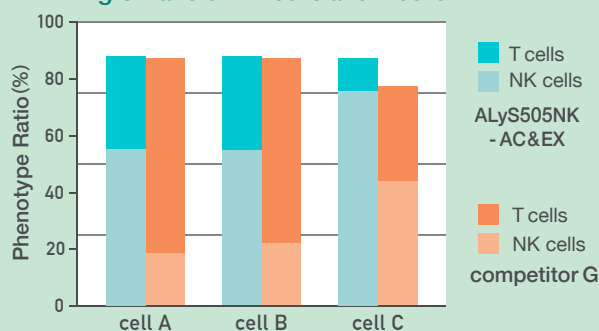
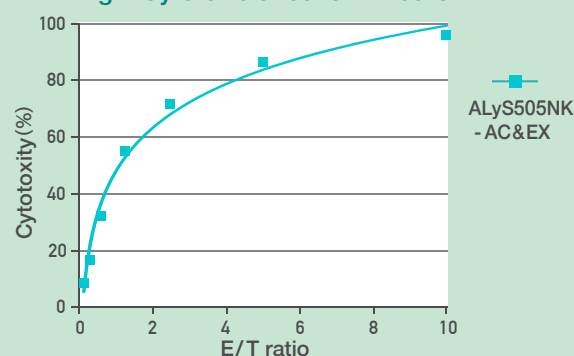


Fig.4 Cytotoxic effect of NK cells



Code (CSTI / NIPRO)	Product Name	Description	Volume
01600P02 / 87-554	ALyS505NK-AC	NK cell culture medium [for activation] (without IL2)	200mL (P)
01610P02 / 87-555	ALyS505NK-AC1000	NK cell culture medium [for activation] (with IL2 1000 IU/mL)	200mL (P)
01400P10 / 87-556	ALyS505NK-EX	NK cell culture medium [for expansion] (without IL2)	1,000mL (P)
01400C10 / 87-558			1,000mL (CB)
01410P10 / 87-557	ALyS505NK-EX1000	NK cell culture medium [for expansion] (with IL2 1000IU/mL)	1,000mL (P)
01410C10 / 87-559			1,000mL (CB)

(P) PET bottle (CB) Culture Bag

※ For Research use only.



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982-0262, JAPAN

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E-mail: csti-info@ml.nipro.co.jp

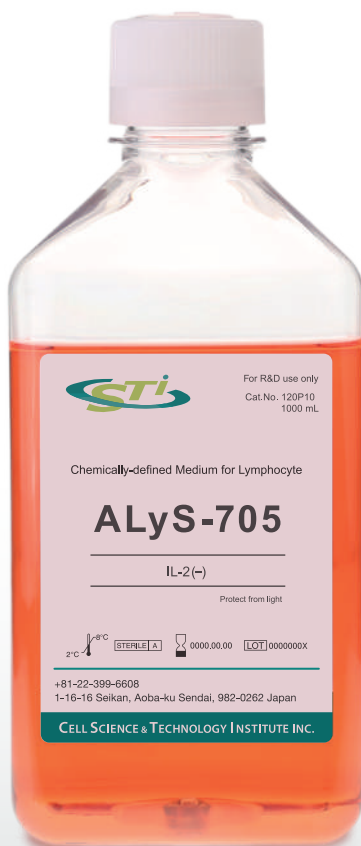


NIPRO CORPORATION
3-9-3, Honjo-Nishi, Kita-ku, Osaka
531-8510, JAPAN

ALyS series

ALyS™ 705

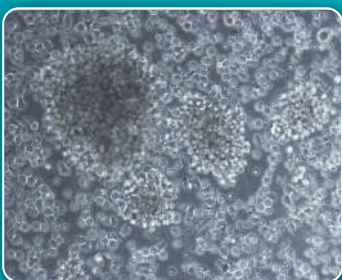
リンパ球用完全合成培養液



ALyS705

IL-2 不含

リンパ球以外の
培養にも応用可能



- 含有タンパク質は遺伝子組換え型ヒトインシュリンのみ
- 動物由来成分不含
- 動物免疫療法で使用実績有

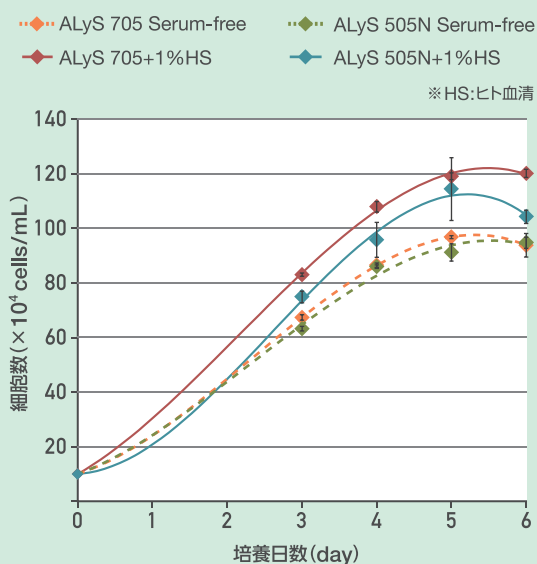
リンパ球用無完全合成培養液

ALyS™ 705

ALyS705は、リンパ球培養に最適な完全合成培養液です。
動物由来成分不含でありながら、
従来製品 (ALyS505N) と同等以上の性能を有しています。

- 含有タンパク質は組換えヒトインシュリンのみ、動物由来成分は一切含まれていません。
- アルブミン代替成分の高分子ポリマーにより細胞間で生じるシェアストレスが軽減されています。
- 1%のヒト血清を添加することにより、細胞増殖性能がさらに向上します。(Fig.1)
- マウス急性毒性試験済みです。組織等へ悪影響を及ぼさないことが確認されています。

Fig.1 ALyS培養液によるリンパ球の増殖



製品コード (CSTI / NIPRO)	製品名	内 容	容量(包装)
120P10 / 87-016	ALyS705	リンパ球用完全合成培養液 (IL-2 不含)	1,000mL (P)

(P) PET bottle

※本品は研究用試薬です。治療・診断目的ではご使用になれません。



株式会社細胞科学研究所
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ニプロ株式会社
大阪府摂津市千里丘新町3番26号

CiMS™

for Human Mesenchymal Stem Cells (hMSCs)



Basal Medium

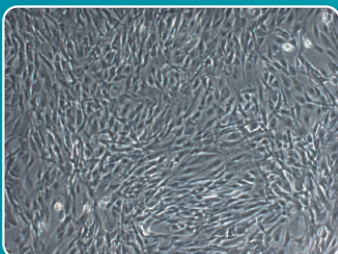
CiMS-BM

Xeno-free
Supplement

CiMS-sXF

Animal-free
Supplement

CiMS-sAF



- Specially designed for hMSCs
- No pre-coating required
- Cell culture tested by hMSCs

CiMS™-BM

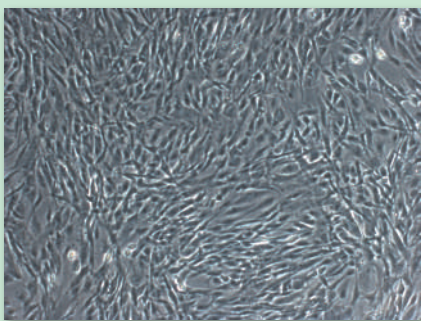
CiMS™-sXF CiMS™-sAF

- CiMS is specially formulated culture medium to proliferate various type of hMSCs in an undifferentiated state without pre-coating of culture vessels.
- CiMS is comprised of the basal medium (CiMS-BM) and the supplement (CiMS-sXF or CiMS-sAF). Please select either Xeno-free (CiMS-sXF) or Animal-free (CiMS-sAF) supplement.
- hMSCs grown in serum-supplemented media can be transitioned into CiMS directly without adaptation.

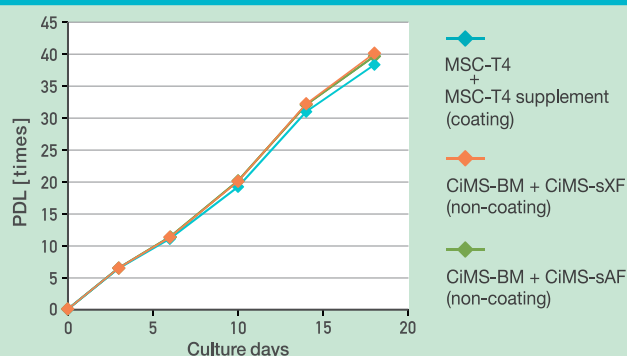
Xeno-free: It contains human derived component. Any other animal derived component-free.
Animal-free: animal derived component-free.



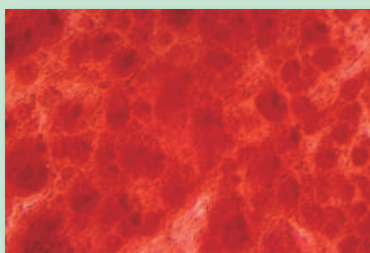
1. Cell morphology (hMSCs from adipose tissue)



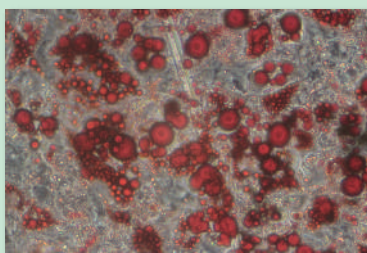
2. Robust proliferation



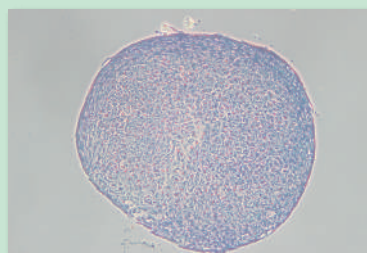
3. Multiple lineage differentiation potential



Alizarin Red S



Oil Red S



Toluidine Blue

Code (CSTI / NIPRO)	Product Name	Description	Storage	Volume
A2G00P05C / 87-070	CiMS-BM	Basal Medium for hMSCs	2 – 8 °C	500mL (P)
A2G10P1CC / 87-071	CiMS-sXF	Xeno-free Supplement for CiMS-BM	below -20 °C	10 mL (P)
A2G20P1CC / 87-072	CiMS-sAF	Animal-free Supplement for CiMS-BM	below -20 °C	10 mL (P)

(P) PET bottle

※ For Research use only.

HFDM™-1

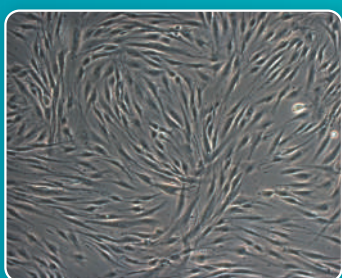
Serum-free medium for Human Fibroblast



HFDM-1(+)

rh-EGF (+)

10 ng/ml rh-EGF



- ❑ Specially designed for human normal dermal fibroblast cells
- ❑ No cell attachment factors are required
- ❑ Animal derived materials-free

HFDM™-1

- **HFDM-1** medium is a serum-free culture medium suitable for normal human fibroblast (HF) (Fig.1).
- **HFDM-1** medium contains human recombinant insulin. Human recombinant epidermal growth factor (EGF) is also included in HFDM-1(+) for the purpose of promoting cell proliferation. Ingredients derived from animal or human are not included.
- Addition of small amount of human serum (0.5-2.0%) to **HFDM-1** medium drastically enhance the growth rate of HDF cells (Fig.2).
- **HFDM-1** medium is passed with strict quality standard.



Fig.1 Human fibroblast cell growth with HFDM-1

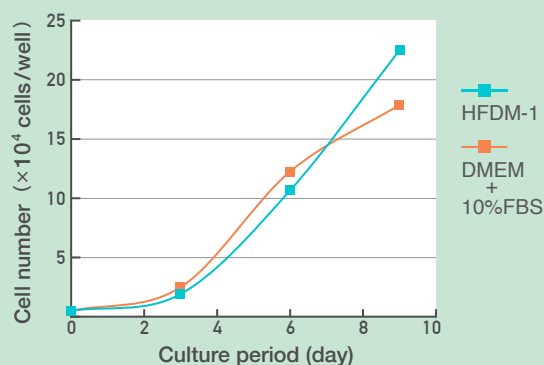
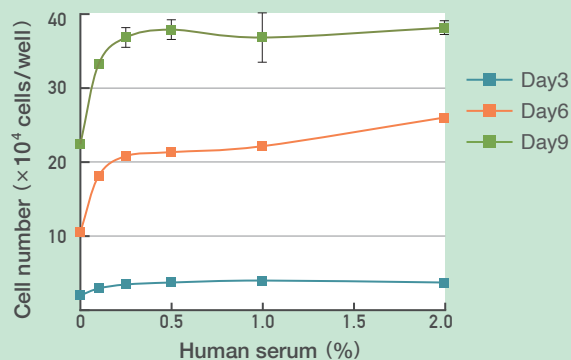


Fig.2 Additive effect of human serum



Code (CSTI / NIPRO)	Product Name	Description	Volume
2102P05 / 87-160	HFDM-1 (+)	Serum-free medium for human fibroblast [with 10 ng/ml rh-EGF]	500mL (P)
2102P10 / 87-162			1,000mL (P)

(P) PET bottle

For Research use only

Artificial serum

Serum substitute

(Supplement for serum-free culture media)



Culture media
supplement

Artificial serum

Xeno-free

Culture media
supplement

Artificial serum

Animal-free

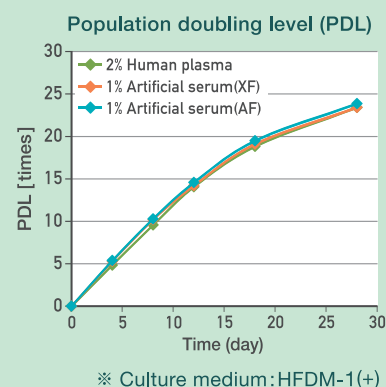
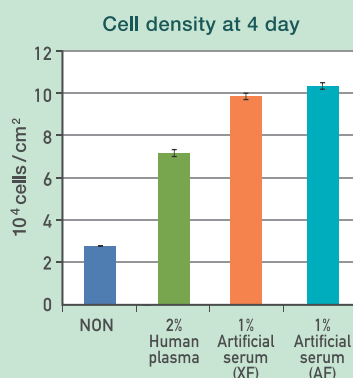
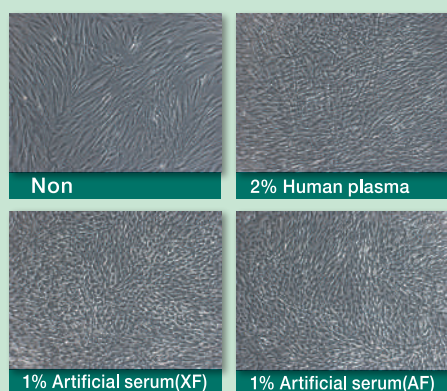
- For human Mesenchymal Stem Cells, human Fibroblasts, human Lymphocytes and other cell lines.
- A small amount of Artificial serum, 5% or less, supports cell growth as same as FBS.
- No lot-to-lot variation

Artificial serum (Xeno-free) Artificial serum (Animal-free)

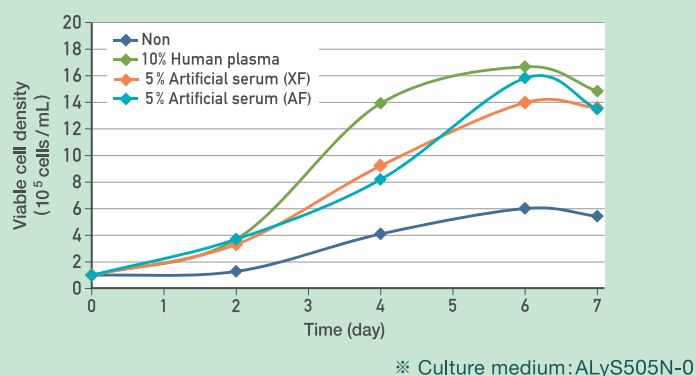
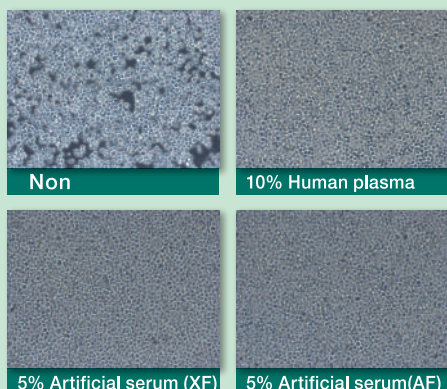
- Artificial serum is developed as a substitute of serum (e.g. FBS).
- Additional "Artificial serum" to serum-free media enhance cell growth.
- Recommended concentration is 5% or less. Optimal concentration should be determined for specific use and cell type.
- Both Xeno-free and Animal-free are available.



1. Adhesion cells (Fibroblast)



2. Suspension cells (DAUDI)



Code (CSTI / NIPRO)	Product name	Description	Storage	Volume
A2G10P2CC / 87-081	Artificial serum (Xeno - free)	Xeno-free Supplement	below-20°C	20mL (P)
A2G20P2CC / 87-082	Artificial serum (Animal-free)	Animal-free Supplement	below-20°C	20mL (P)

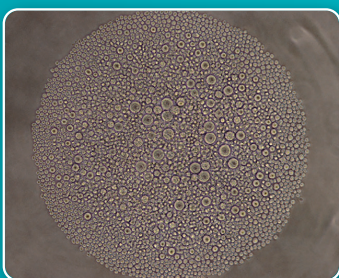
(P) PET bottle

※ For Research use only.

HemEx[®]-Type9AØ

Mouse HSC expansion basal medium

*Requires the addition of cytokines



- ☐ This medium is new improved version for HemEx-Type9A.
- ☐ Confirmed more mouse HSPC proliferation than conventional products.
- ☐ Supervised by Professor Hiromitsu Nakauchi and Professor Satoshi Yamazaki.

Mouse HSC expansion basal medium

HemEx®-Type9AØ *Requires the addition of cytokines

- It is possible to proliferate more undifferentiated HSC from single mouse HSC than before.
- This product developed by Dr. Yamazaki is manufactured with strict quality control in CSTI.



Mouse HSCs expansion after 10 days in culture

Fig.1 Number of cells

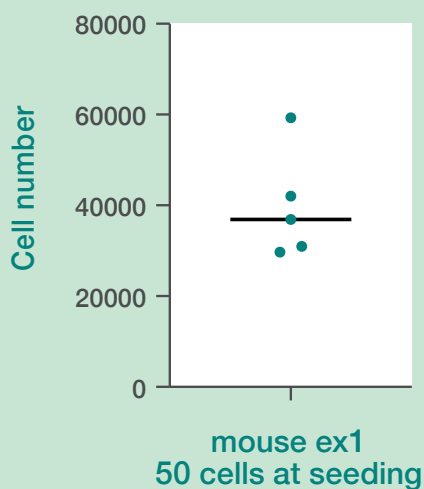
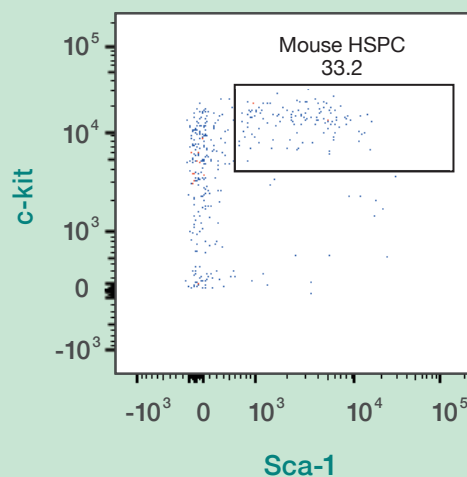


Fig.2 An example flow cytometry plot displaying mouse HSC



Code (CSTI / NIPRO)	Product Name	Description	Volume
A5P10P01C / 87-590	HemEx-Type9AØ	Mouse HSC basal medium	100mL (P)

(P) PET bottle

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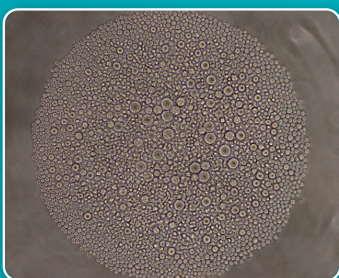


NIPRO CORPORATION
3-26, Senriokashinmachi, Settsu,
Osaka, 566-8510, Japan

HemEx[®]-TypeH

Human HSC expansion basal medium

*Requires the addition of chemically synthesized agonists, etc.



- ❑ Specially designed for human HSC.
- ❑ Confirmed the proliferation of human HSPC.
- ❑ Supervised by Professor Satoshi Yamazaki.

HemEx[®]-TypeH

*Requires the addition of chemically synthesized agonists, etc.

- HemEx-TypeH is optimized for expansion of human HSC.
- This product developed by Dr. Yamazaki is manufactured with strict quality control in CSTI.
- For information on obtaining Butyzamide, a chemically synthesized agonist to be added, please contact Celaid Therapeutics Inc. (contact@celaidtx.com)
- It is necessary to add L-glutamine at a concentration of 4mM.



Human HSCs expansion after 10 days in culture

Fig.1 Number of cells

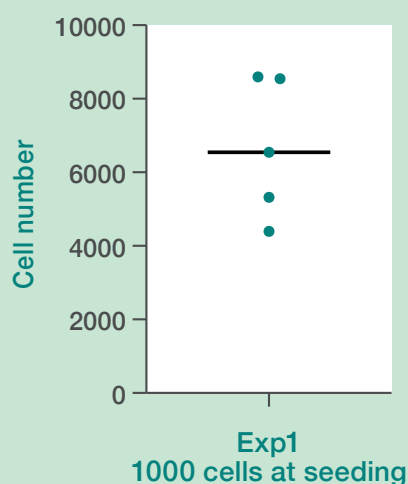
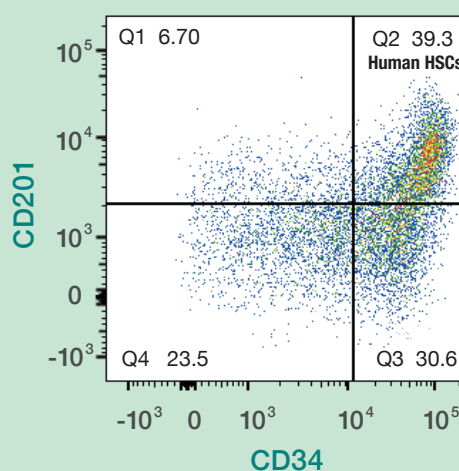


Fig.2 An example flow cytometry plot displaying human HSC



Code (CSTI / NIPRO)	Product Name	Description	Volume
A2D10P01C / 87-079	HemEx-TypeH	Human HSC basal medium	100mL (P)
Supplement			
Code (CSTI / NIPRO)	Product Name	Description	Volume
1104 / 87-885	200mM L-Glutamine solution	200mM L-Glutamine solution	100mL (P)

(P) PET bottle

※ For Research use only.