

슬기로운

Organoids Culture법

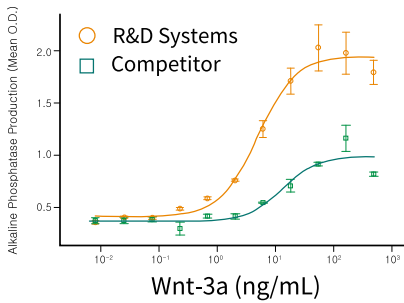
• Wnt3a • Noggin • R-Spondin 1

Organoids Culture 시 필독 사항!

- 좋은 Proteins 선택 - Size 및 Maturation에 대한 variation을 줄일 수 있습니다.
- Matrix의 선택 - Lot variation 이 적어야 합니다
- Normalization - High throughput 가능, 간편 분석, HCS 장비 이제 필수!

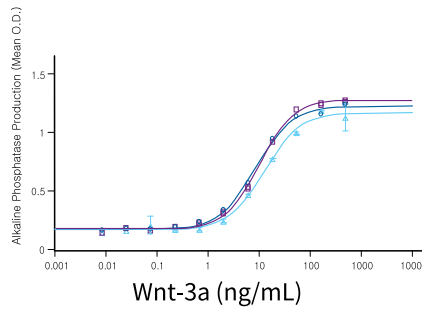
하나. 좋은 Proteins 선택 - R&D Proteins는 다릅니다.

Great Bioactivity



- : 동일 양, 더 좋은 Performance
- : 각 Protein에 맞는 Activity 측정 시 경쟁사 대비 더 좋은 ED50

Consistency

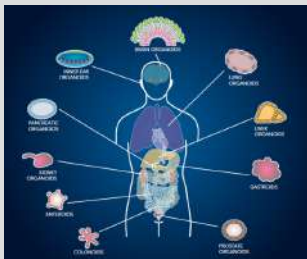


- : Lot to Lot variation의 중요성! R&D의 간단한 QC로 해결!
- : Batch 마다 실험 시 결과가 달라지면 안됩니다.

No! Conditioned Media



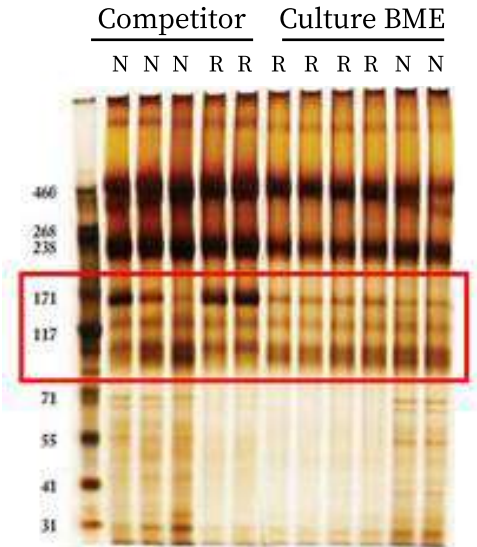
- : Unpurity protein은 Organoids size 및 Maturation 불균일의 원인!



** Order Information

Cat #	Product
5036-WN	Recombinant Human Wnt-3a
6057-NG	Recombinant Human Noggin
4645-RS	Recombinant Human R-Spondin 1

둘. 재현성 있는 Organoid Culture Solution 선택



N = Non-reduced growth factor
R = Reduced growth factor

R&D Systems는 **CONSISTENT reagent**를 제공합니다.

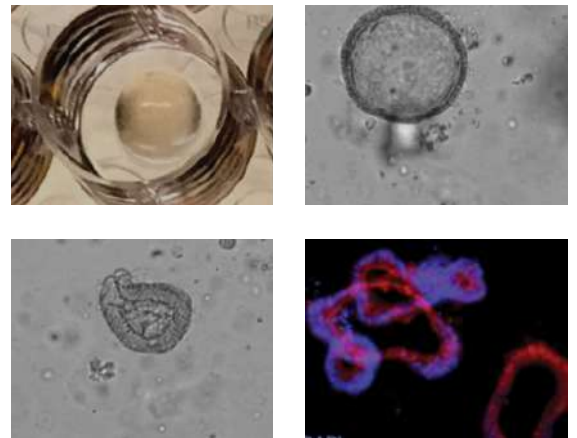
No Lot-variation!

- R&D **Proteins**
- R&D Cultrex **BMEs**
- Tocris **Small Molecules**



R&D Systems의 Culture Matrix 추천

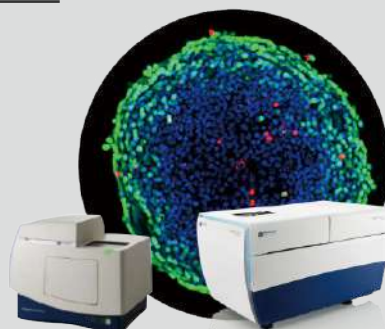
BME Name	Recommend Applications
Cultrex Stem Cell Qualified BME	Attachment and Maintenance of Stem Cells
Cultrex Stem Cell Qualified BME, Type 2	Robust Organoid Culture
Cultrex Stem Cell Qualified BME, Type R1	Difficult to Grow Organoid Culture



셋. Organoids Image Analysis

HCS 장비

- : High Contents Image & Analysis System
- : Normalization을 위한 필수 장비
- : Matrix 내 오가노이드 분석
- : High throughput
- : 3D Z-Stacking
- : 쉬운 소프트웨어



Organoid Harvesting Solution

- 오가노이드도 쉽게 sub-culture 하자
- for biochemical analysis
- non-Enzymatic Method

