Fig. 1

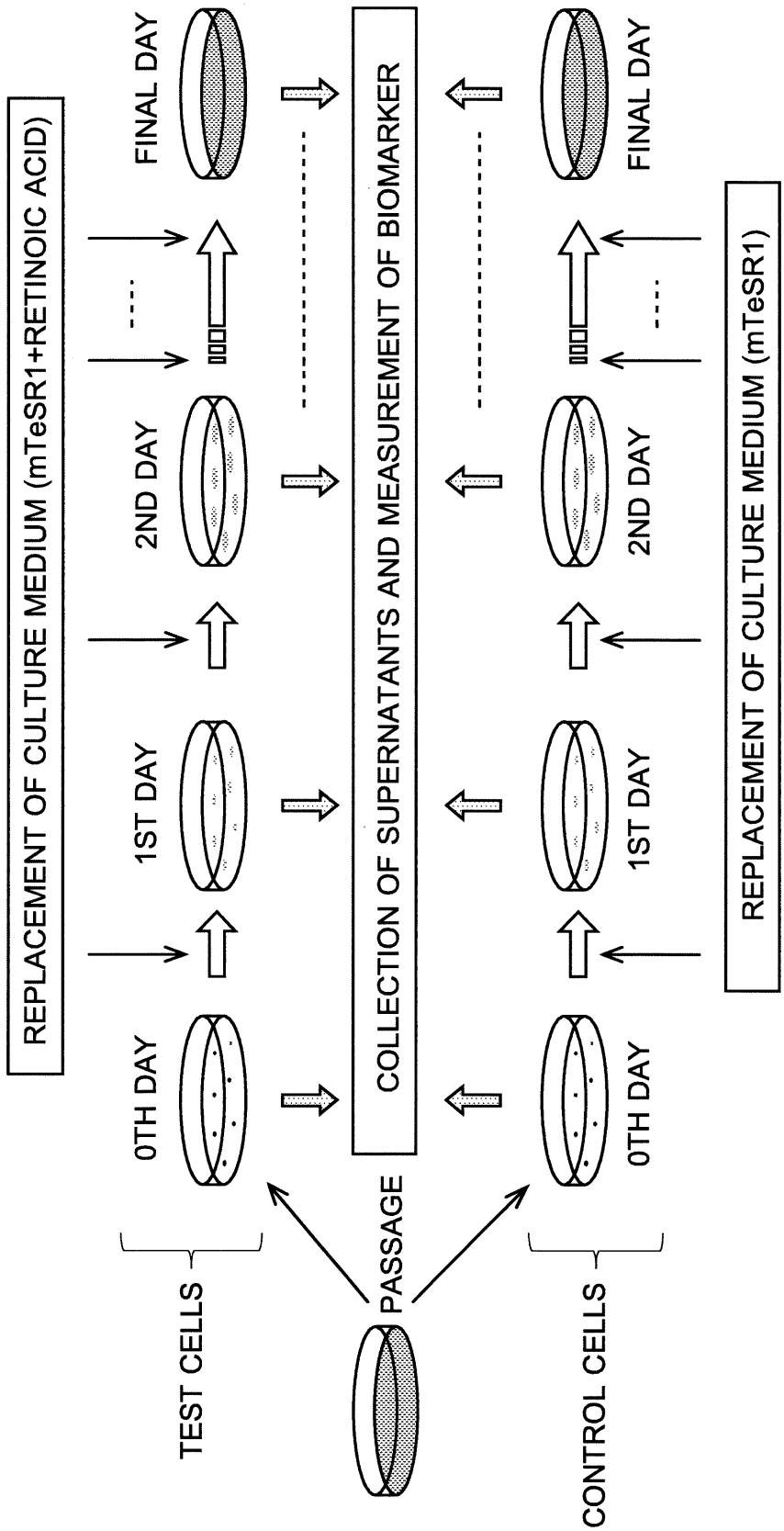
REPLACEMENT OF CULTURE MEDIUM (mTeSR1+RETINOIC ACID)
0TH DAY
1ST DAY
2ND DAY
FINAL DAY
COLLECTION OF SUPERNATANTS AND MEASUREMENT OF BIOMARKER
PASSAGE
TEST CELLS
CONTROL CELLS
REPLACEMENT OF CULTURE MEDIUM (mTeSR1)

Fig. 2

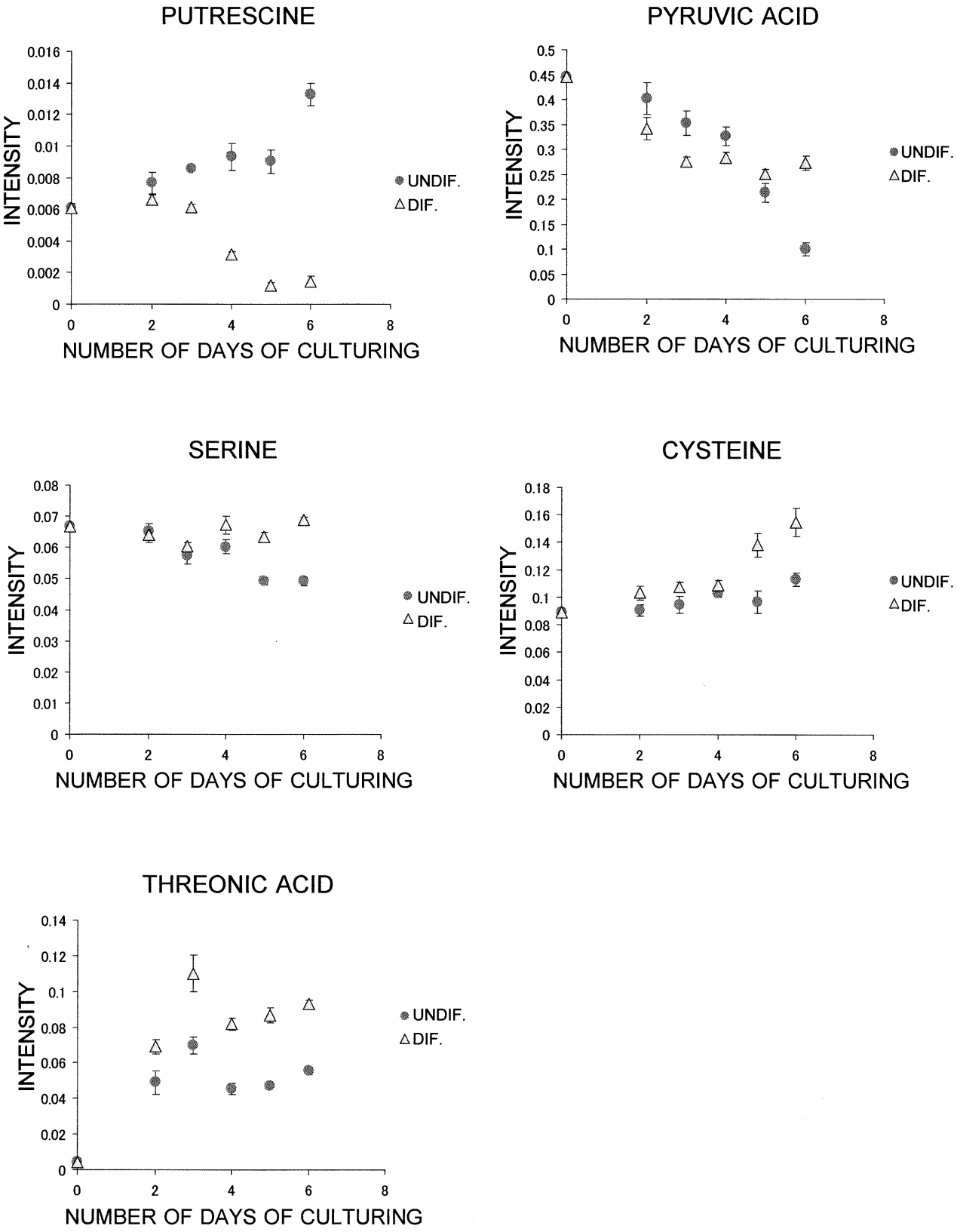
PUTRESCINE
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.
PYRUVIC ACID
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.
SERINE
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.
CYSTEINE
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.
THREONIC ACID
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.

Fig. 3

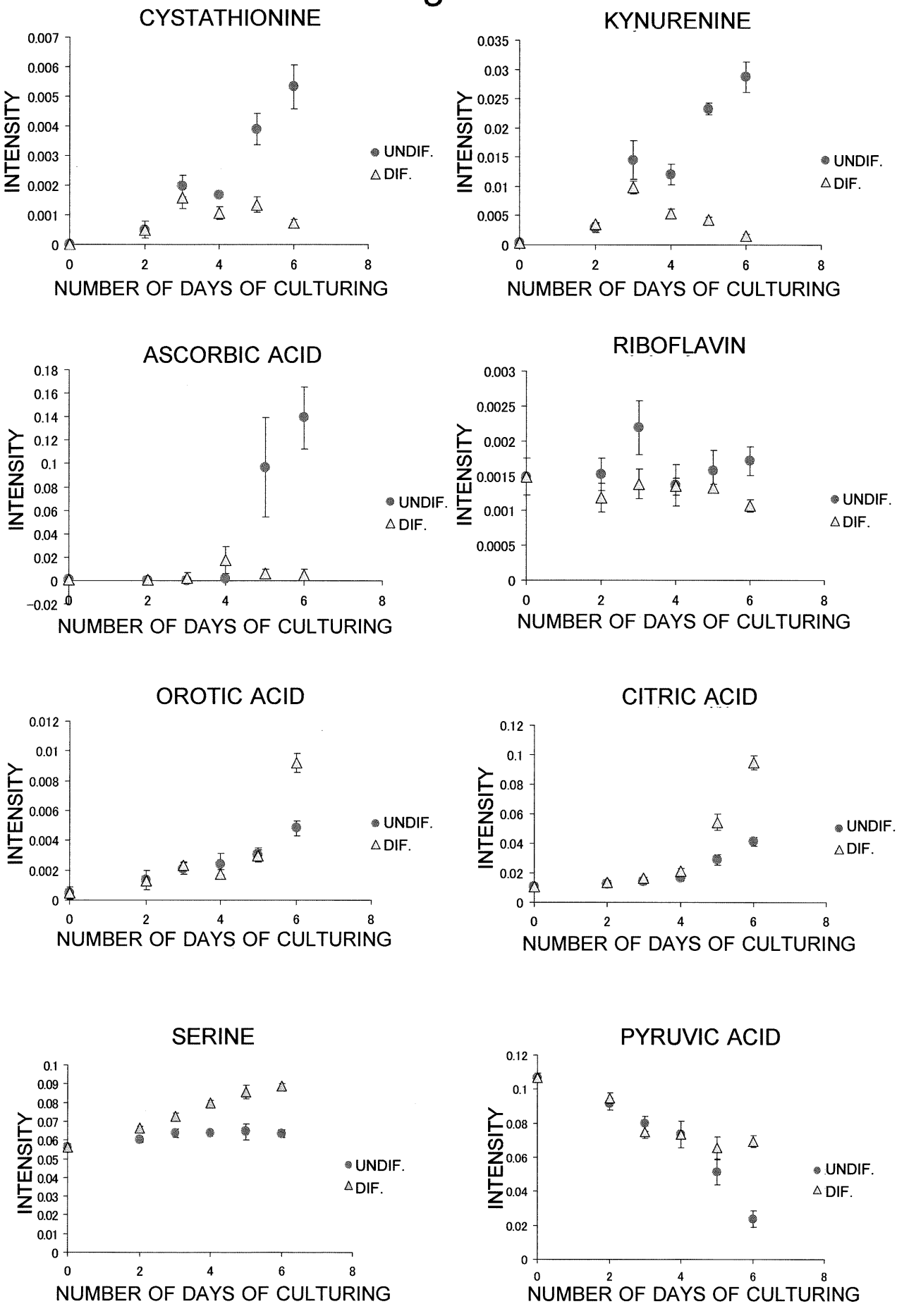
CYSTATHIONINE
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.
KYNURENINE
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.
ASCORBIC ACID
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.
RIBOFLAVIN
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.
OROTIC ACID
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.
CITRIC ACID
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.
SERINE
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.
PYRUVIC ACID
INTENSITY
NUMBER OF DAYS OF CULTURING
UNDIF.
DIF.

Fig. 4

Components
Amino Acids
Glycine
L-Alanine
L-Arginine hydrochloride
L-Asparagine-H2O
L-Aspartic acid
L-Cysteine hydrochloride-H2O
L-Cystine 2HCl
L-Glutamic Acid
L-Glutamine
L-Histidine hydrochloride-H2O
L-Isoleucine
L-Leucine
L-Lysine hydrochloride
L-Methionine
L-Phenylalanine
L-Proline
L-Serine
L-Threonine
L-Tryptophan
L-Tyrosine disodium salt dihydrate
L-Valine
Vitamins
Biotin
Choline chloride
D-Calcium pantothenate
Folic Acid
Niacinamide
Pyridoxine hydrochloride
Riboflavin
Thiamine hydrochloride
Vitamin B12
i-Inositol
Inorganic Salts
Calcium Chloride (CaCl2) (anhyd.)
Cupric sulfate (CuSO4-5H2O)
Ferric Nitrate (Fe(NO3)3"9H2O)
Ferric sulfate (FeSO4-7H2O)
Magnesium Chloride (anhydrous)
Magnesium Sulfate (MgSO4) (anhyd.)
Potassium Chloride (KCl)
Sodium Bicarbonate (NaHCO3)
Sodium Chloride (NaCl)
Sodium Phosphate dibasic (Na2HPO4) anhydrous
Sodium Phosphate monobasic (NaH2PO4-H2O)

Fig. 5

	Compound
1	Glycine
2	L-Alanine
3	L-Valine
4	L-Leucine
5	L-Isoleucine
6	L-Proline
7	L-Serine
8	L-Threonine
9	L-Methionine
10	L-Phenylalanine
11	L-Tyrosine disodium salt dihydrate
12	L-Tryptophan
13	L-Asparagine-H2O
14	L-Glutamine
15	L-Histidine hydrochloride-H2O
16	L-Lysine hydrochloride
17	L-Arginine hydrochloride
18	L-Aspartic acid
19	L-Glutamic Acid
20	L-Cysteine hydrochloride-H2O
21	L-Cystine 2HCl
22	Sodium Pyruvate
23	Pipecolic acid
24	GABA
25	D-Glucose (Dextrose)
26	Biotin
27	Niacinamide
28	i-Inositol
29	D-Calcium pantothenate
30	Riboflavin
31	Lipoic Acid
32	Pyridoxine hydrochloride
33	Thiamine hydrochloride
34	Folic Acid
35	Choline chloride
36	Vitamin B12
37	L-Ascorbic acid 2-phosphate magnesium salt
38	DL-alpha-Tocopherol Acetate
39	Putrescine 2HCl
40	Hypoxanthine Na

Fig. 6

41 Thymidine
42 Linoleic Acid
43 Arachidonic Acid
44 Linolenic Acid
45 Myristic Acid
46 Oleic Acid
47 Palmitic Acid
48 Palmitoleic Acid
49 Stearic Acid
50 Cholesterol
51 Reduced glutathione
52 Insulin
53 Ethyl Alcohol 100%
54 β-Mercaptoethanol
55 Pluronic F-68
56 Tween 80®
57 Phenol Red
58 BSA fraction V
59 Bovine holo transferrin
60 TGFβ1
61 zbFGF
62 Calcium Chloride (CaCl2) (anhyd.)
63 Cupric sulfate (CuSO4-5H2O)
64 Ferric Nitrate (Fe(NO3)3″9H2O)
65 Ferric sulfate (FeSO4-7H2O)
66 Magnesium Chloride (anhydrous)
67 Magnesium Sulfate (MgSO4) (anhyd.)
68 Potassium Chloride (KCl)
69 Sodium Bicarbonate (NaHCO3)
70 Sodium Chloride (NaCl)
71 Sodium Phosphate dibasic (Na2HPO4) anhydrous
72 Sodium Phosphate monobasic (NaH2PO4-H2O)
73 Zinc sulfate (ZnSO4-7H2O)
74 Sodium Selenite
75 LiCl
76 PBS
77 Trace Elements B
78 Trace Elements C