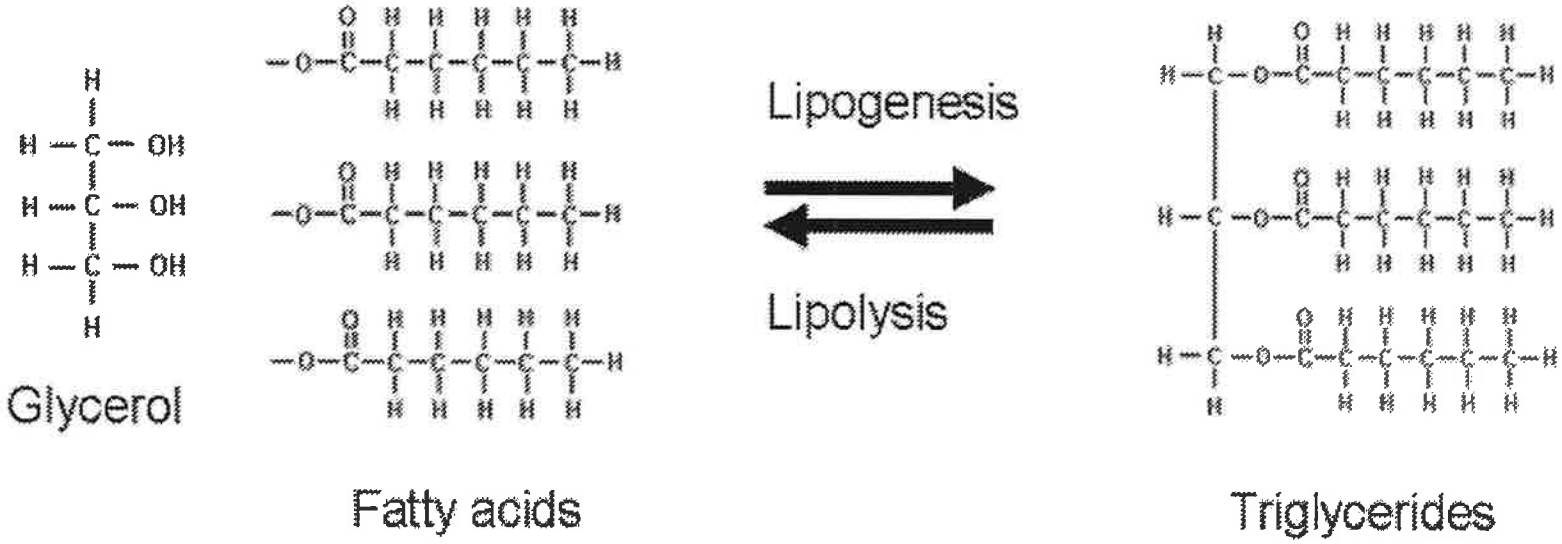
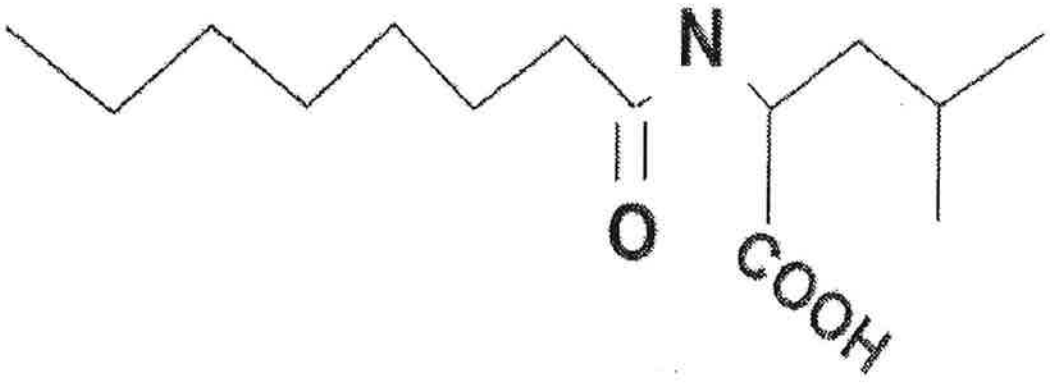

Glycerol
Fatty acids
Lipogenesis
Lipolysis
Triglycerides

FIG. 1

A

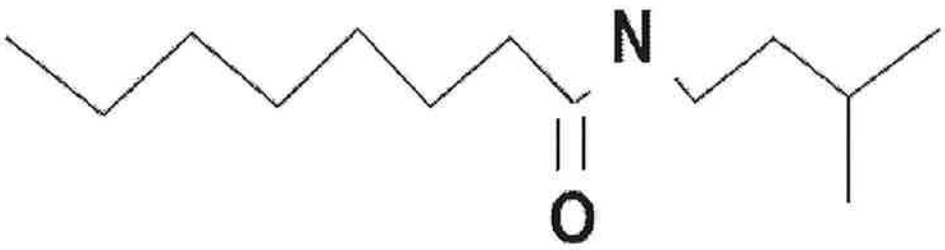
4-Methyl-2-(octanoylamino) pentanoic acid



$C_{14}H_{27}NO_3$ MW=257

B

N-isopentyloctanamide



$C_{13}H_{27}NO$ MW=213

FIG. 2

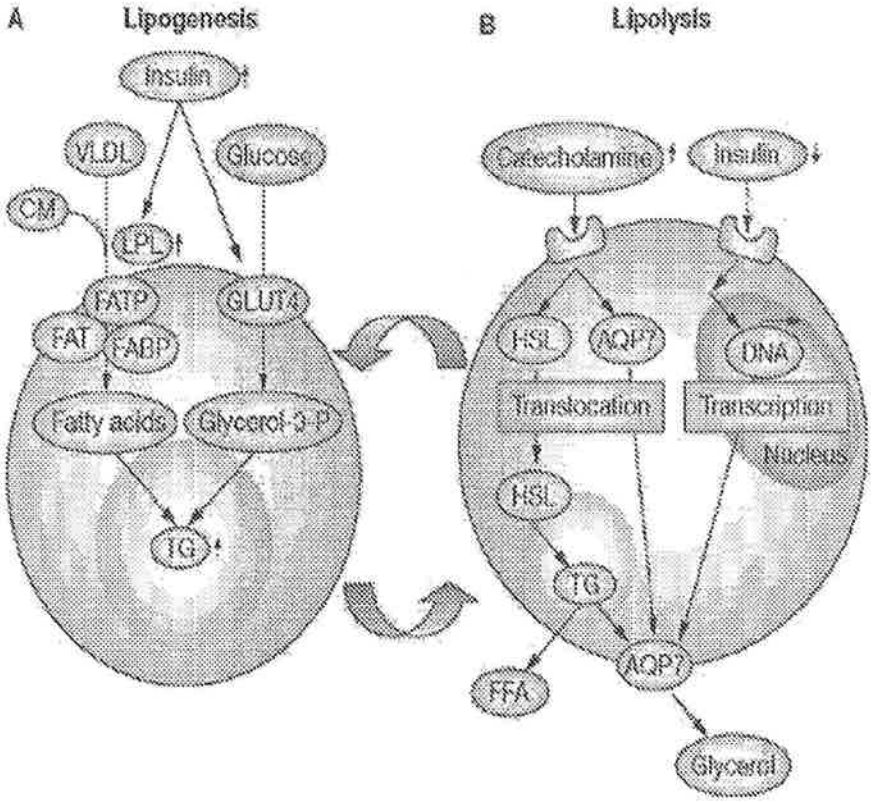

A
Lipogenesis
Insulin
VLDL
Glucose
CM
LPL
FATP
GLUT4
FAT
FABP
Fatty acids
Glycerol-3-P
TG
B
Lipolysis
Catecholamine
Insulin
HSL
AQP?
DNA
Translocation
Transcription
Nucleus
HSL
TG
AQP?
FFA
Glycerol

FIG. 3

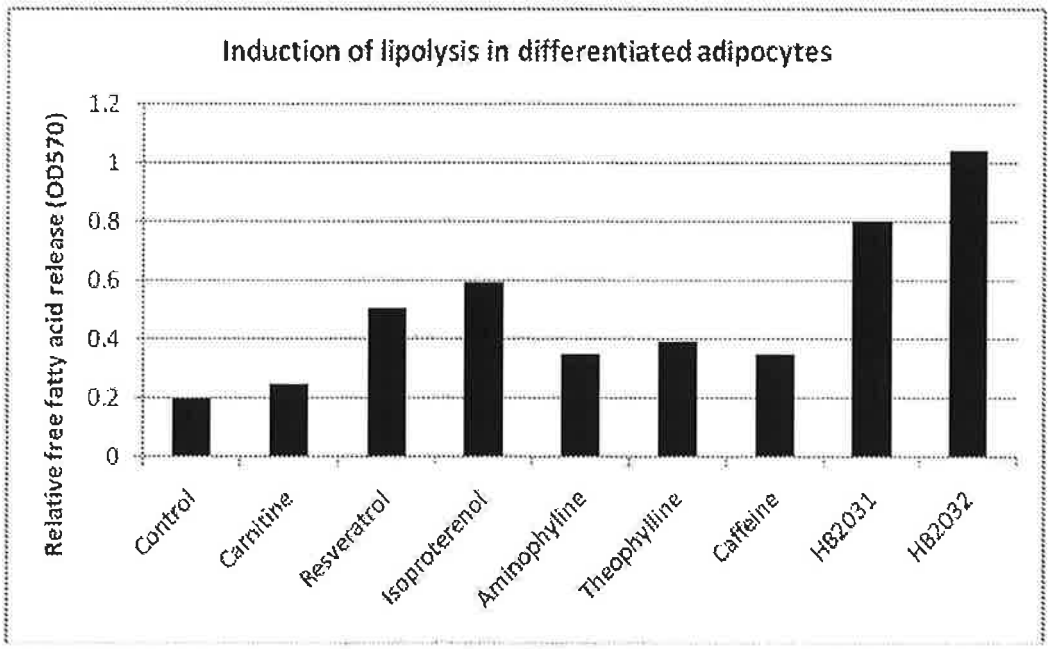

Induction of lipolysis in differentiated adipocytes
Relative free fatty acid release (OD570)
1.2
1
0.8
0.6
0.4
0.2
0
Control
Carnitine
Resveratrol
Isoproterenol
Aminophylline
Theophylline
Caffeine
HB2031
HB2032

FIG. 4

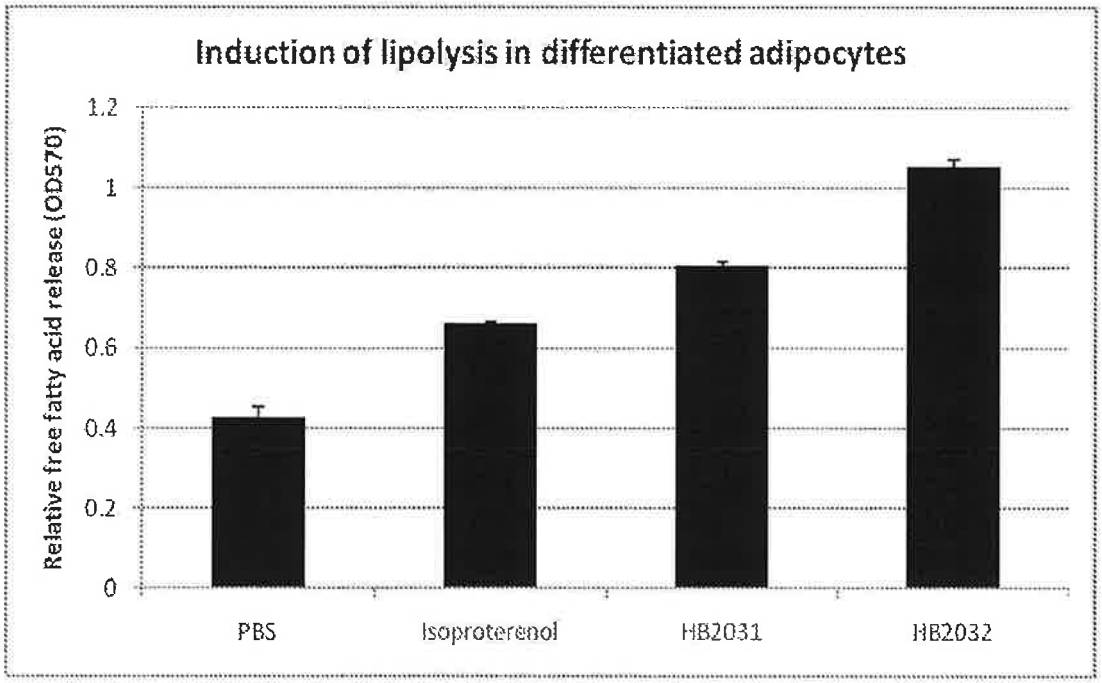

Induction of lipolysis in differentiated adipocytes
Relative free fatty acid release (OD570)
1.2
1
0.8
0.6
0.4
0.2
0
PBS
Isoproterenol
HB2031
HB2032

FIG. 5

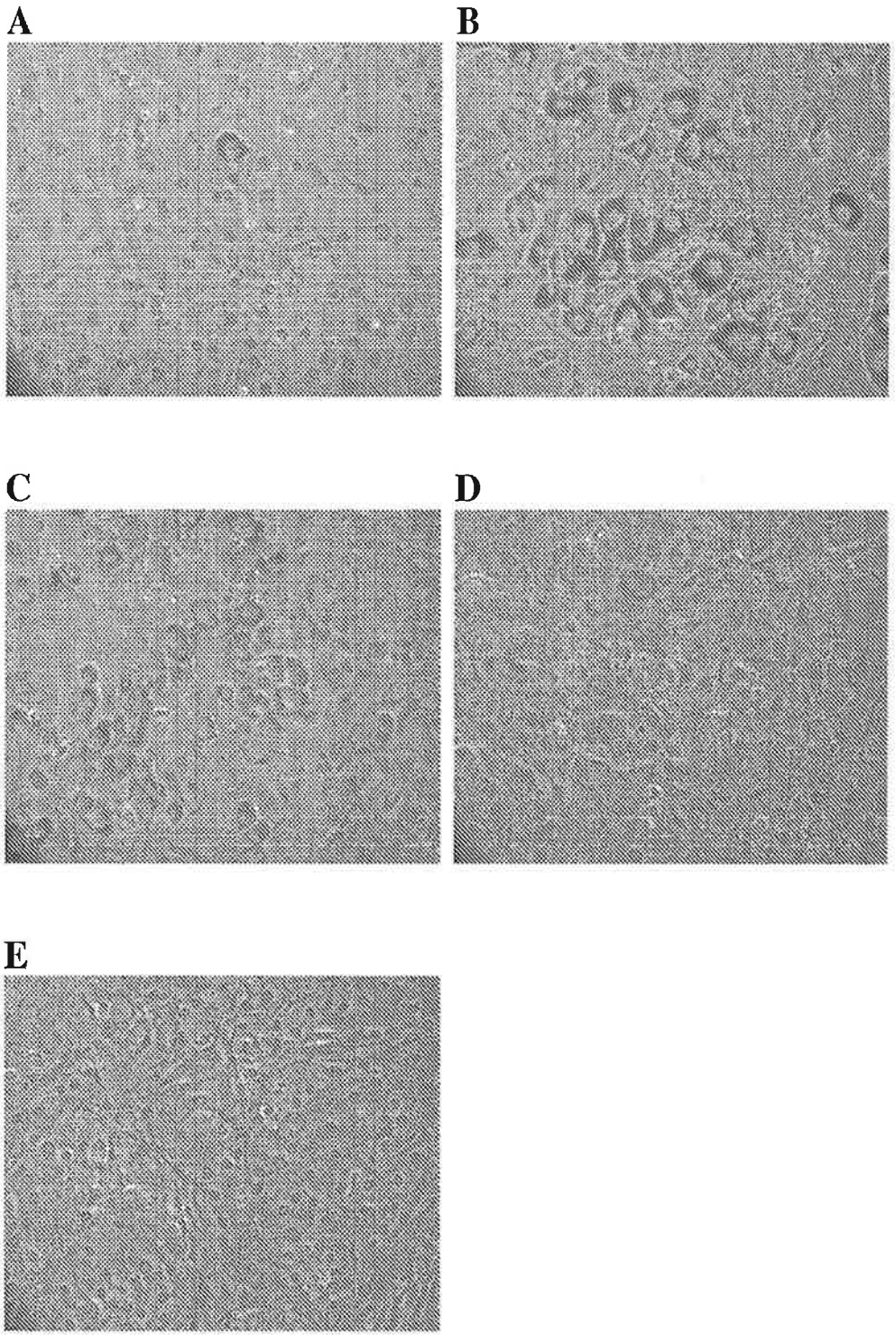


FIG. 6

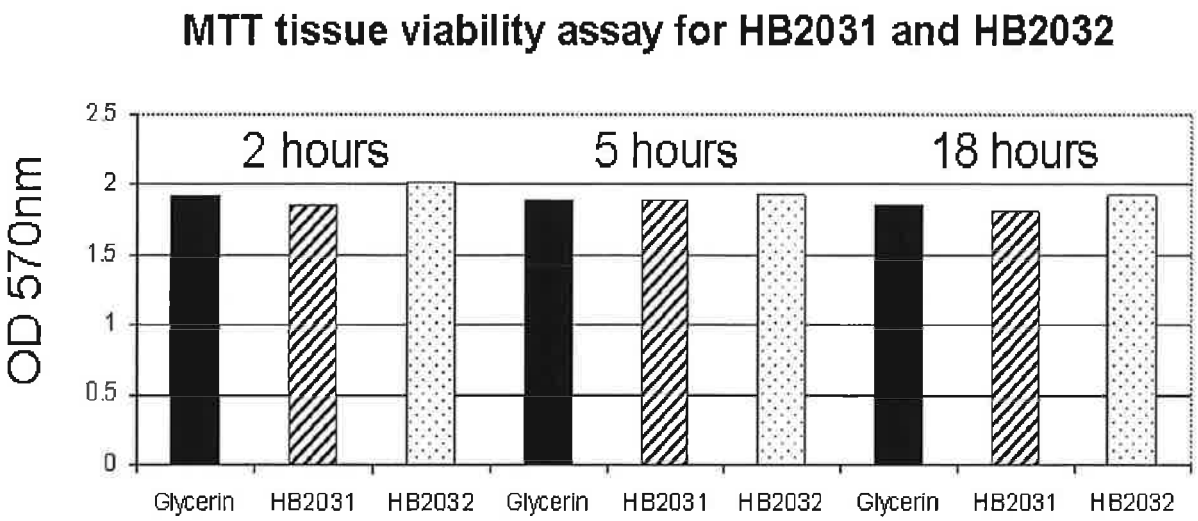

MTT tissue viability assay for HB2031 and HB2032
OD 570nm
2.5
2
1.5
1
0.5
0
2 hours
5 hours
18 hours
Glycerin
HB2031
HB2032
Glycerin
HB2031
HB2032
Glycerin
HB2031
HB2032

FIG. 7