FIG. 1

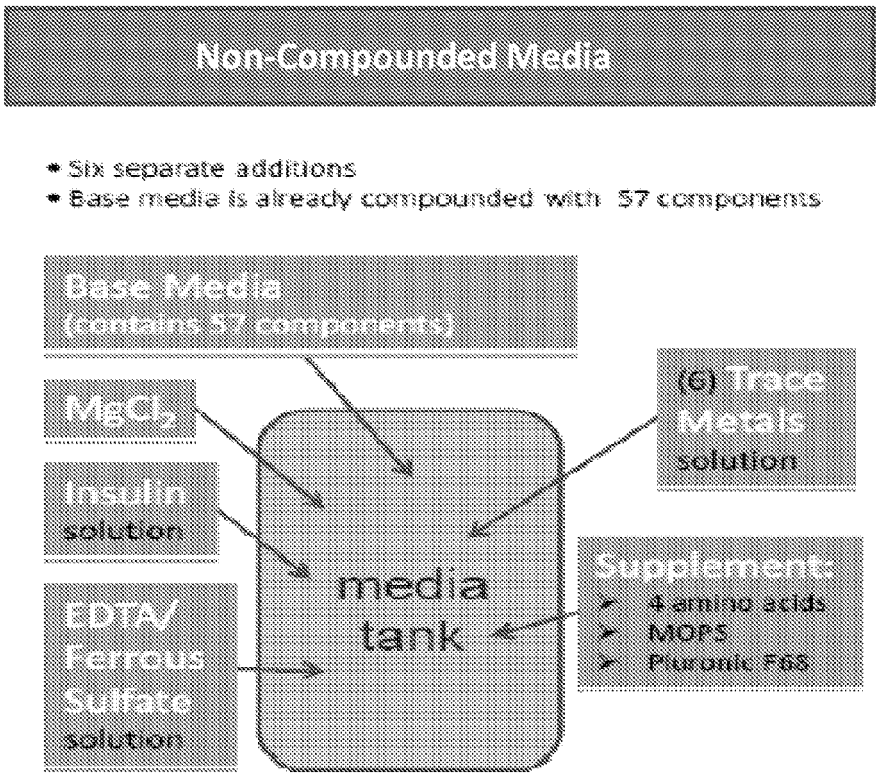

Non-Compounded Media
• Six separate additions
• Base media is already compounded with 57 components
Base Media (contains 57 components)
$MgCl_2$
Insulin solution
EDTA/ Ferrous Sulfate solution
media tank
(C) Trace Metals solution
Supplements:
4 amino acids
MOPS
Pluronic F68

FIG. 2

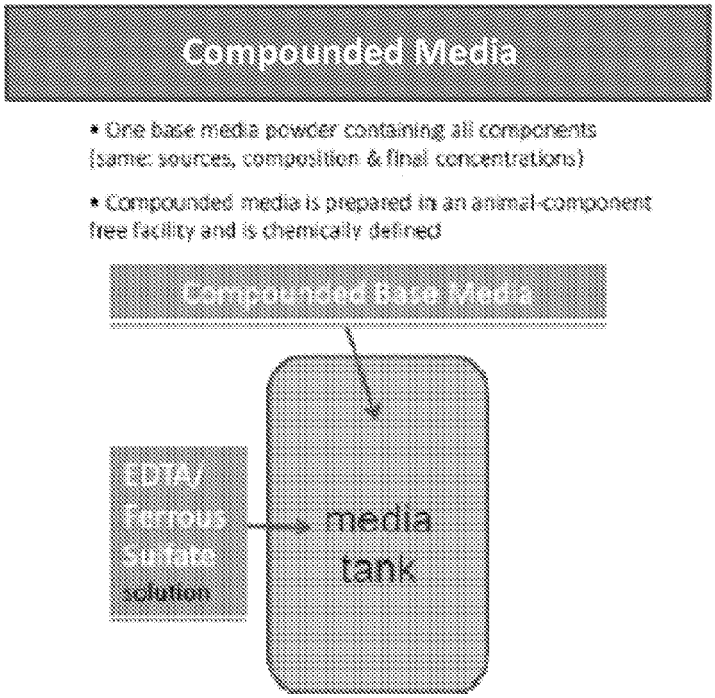
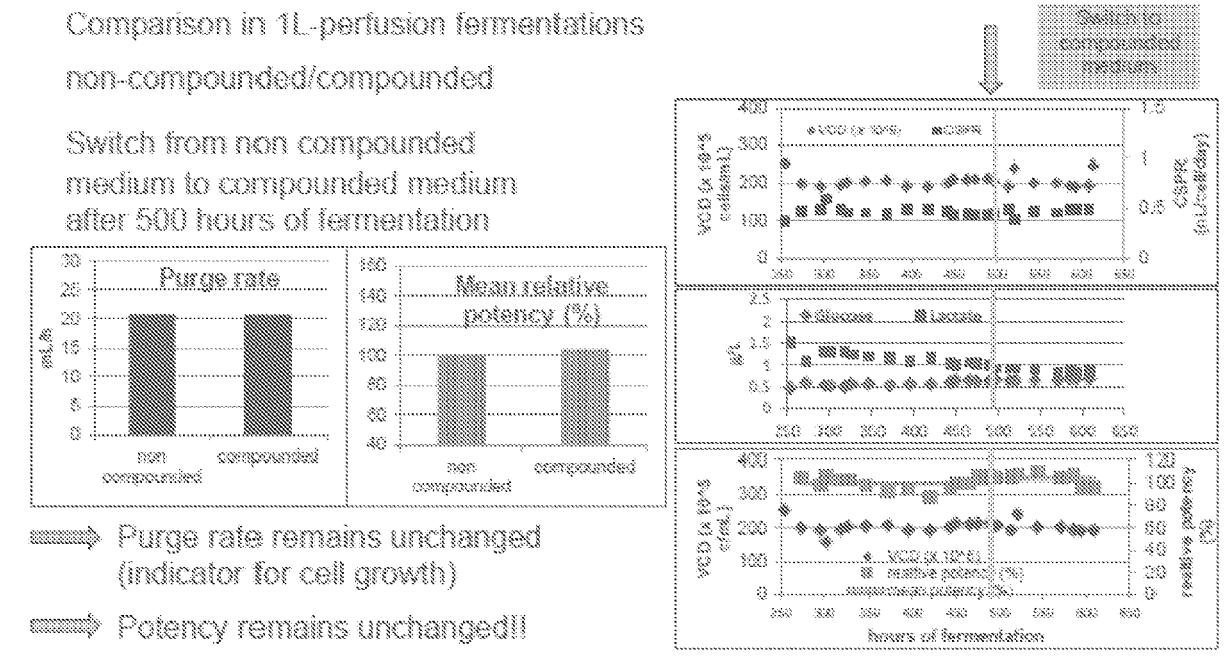

Compounded Media
• One base media powder containing all components (same sources, composition & final concentrations)
• Compounded media is prepared in an animal-component free facility and is chemically defined
Compounded Base Media
EDTA/ Ferrous Sulfate solution
media tank

FIG. 3


Comparison in 1L-perfusion fermentations
non-compounded/compounded
Switch from non compounded medium to compounded medium after 500 hours of fermentation
Switch to compounded medium
Purge rate
Mean relative potency (%)
non compounded
compounded
Purge rate remains unchanged (indicator for cell growth)
Potency remains unchanged!!
Glucose
Lactate
hours of fermentation