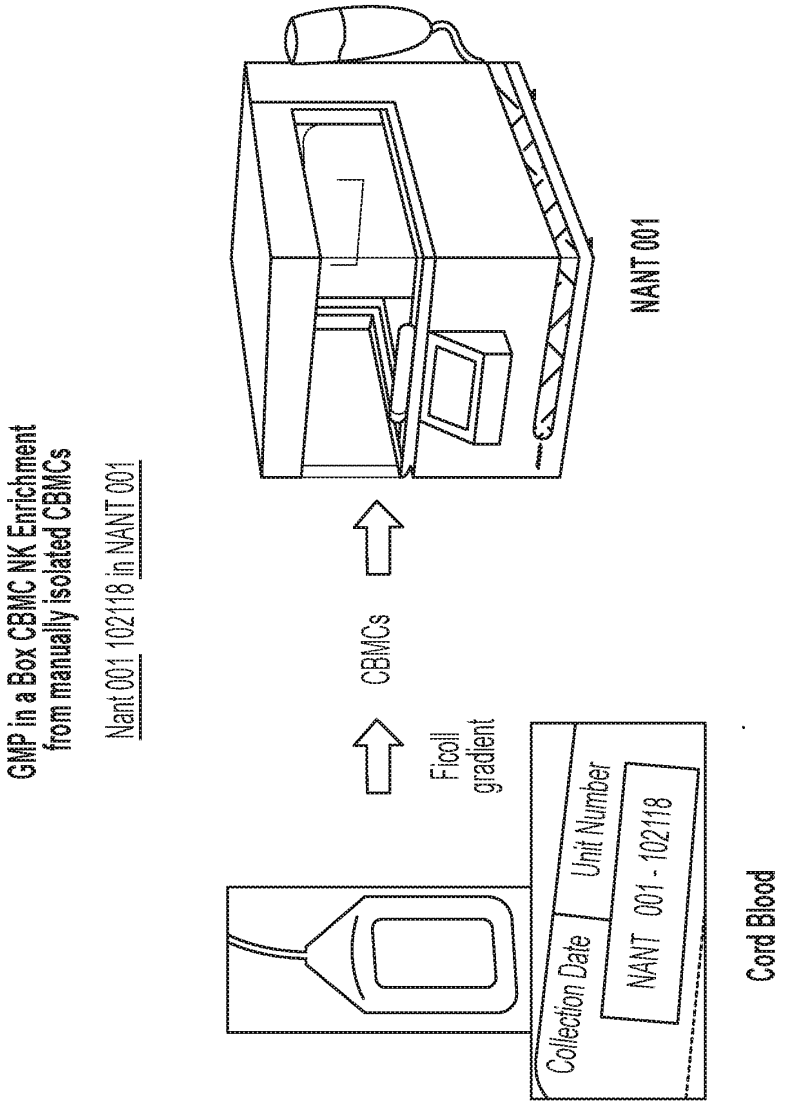

GMP in a Box CBMC NK Enrichment
from manually isolated CBMCs
Nant 001 102118 in NANT 001
Ficoll gradient
CBMCs
NANT 001
Cord Blood
Collection Date
Unit Number
NANT 001 - 102118

Fig. 1

GMP in a Box CBMC NK Enrichment Nant001(only αCD16, no αCD3)
Proposed Workflow for a Delayed Activation Period in GMP Box:
Recovery & Activation
Rapid Expansion
Culture Culmination
Day 1
200mL of CBMC between 1-2e6/mL [200-400e6 CBMC] w/activating antibodies (1ug/mL aCD16) and ALT-803 (1X=0.4nM)
Day 3/4
Feed 25mL media with 10X ALT-803 (1X=0.4nM)
Day 7/8
Feed 25mL media with 10X ALT-803 (1X=0.4nM)
Day 10/11
Feed 200mL media with 2X ALT-803 (1X=0.4nM)
Day 13/14
Feed 45mL media with 10X ALT-803 (1X=0.8nM)
Day 16/17
Feed 200mL media with 3X ALT-803 (1X=0.8nM)
Day 19/20
Feed 65mL media with 10X ALT-803 (If needed)
Day 19-24
Harvest Cells ~ 1e9

Fig. 2

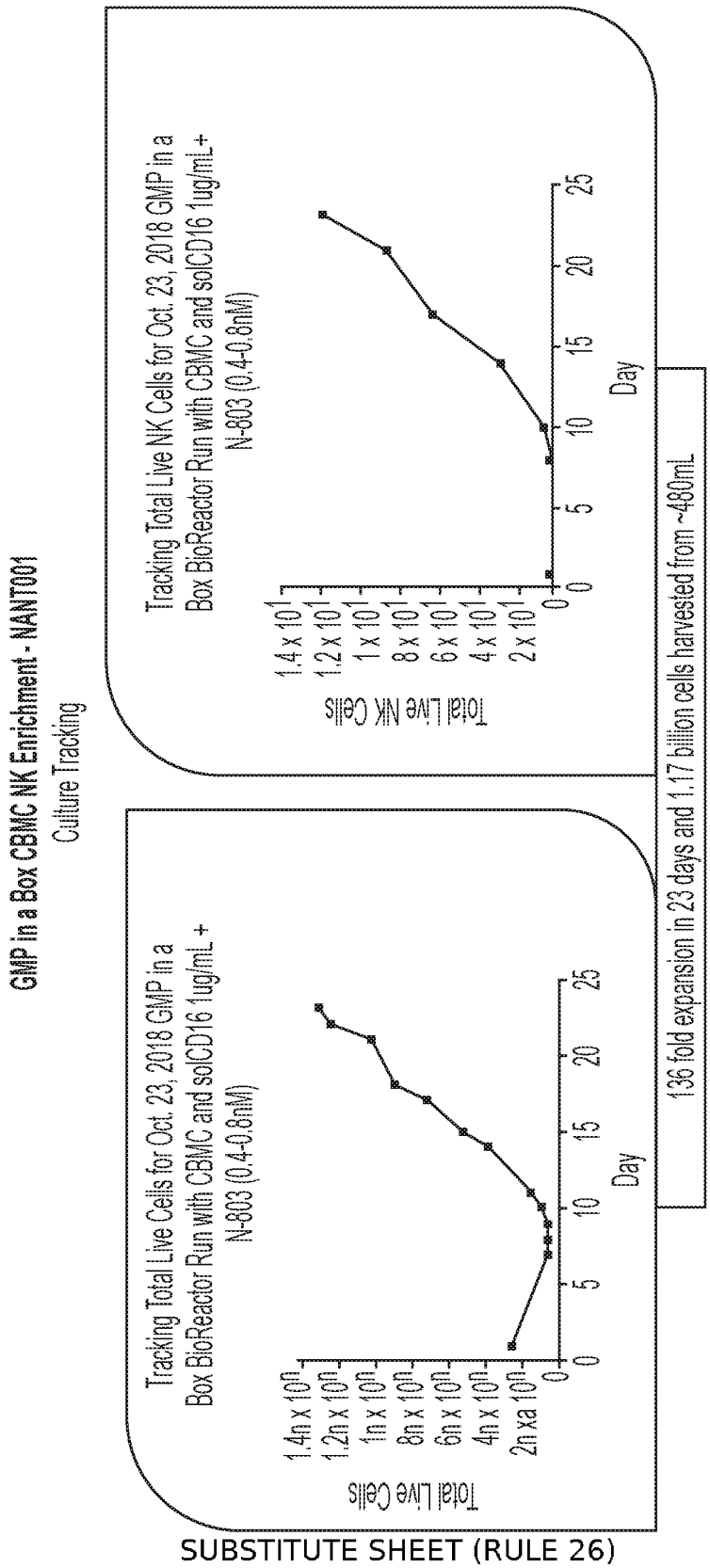

GMP in a Box CBMC NK Enrichment - NANT001
Culture Tracking
Tracking Total Live Cells for Oct. 23, 2018 GMP in a Box BioReactor Run with CBMC and solCD16 1ug/mL + N-803 (0.4-0.8nM)
Total Live Cells
Day
Tracking Total Live NK Cells for Oct. 23, 2018 GMP in a Box BioReactor Run with CBMC and solCD16 1ug/mL+ N-803 (0.4-0.8nM)
Total Live NK Cells
Day
136 fold expansion in 23 days and 1.17 billion cells harvested from ~480mL

Fig. 3

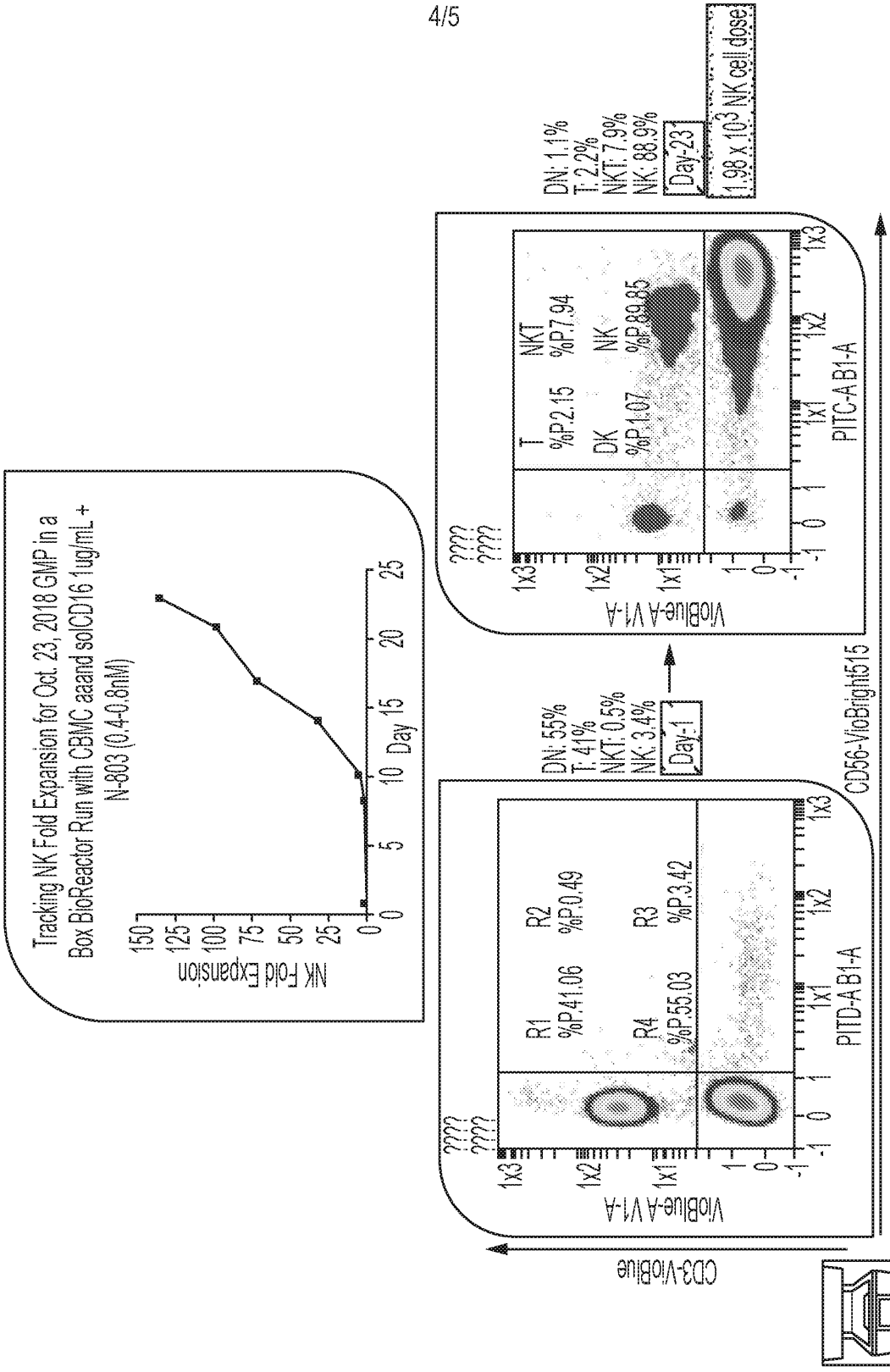


Fig. 3 Continued

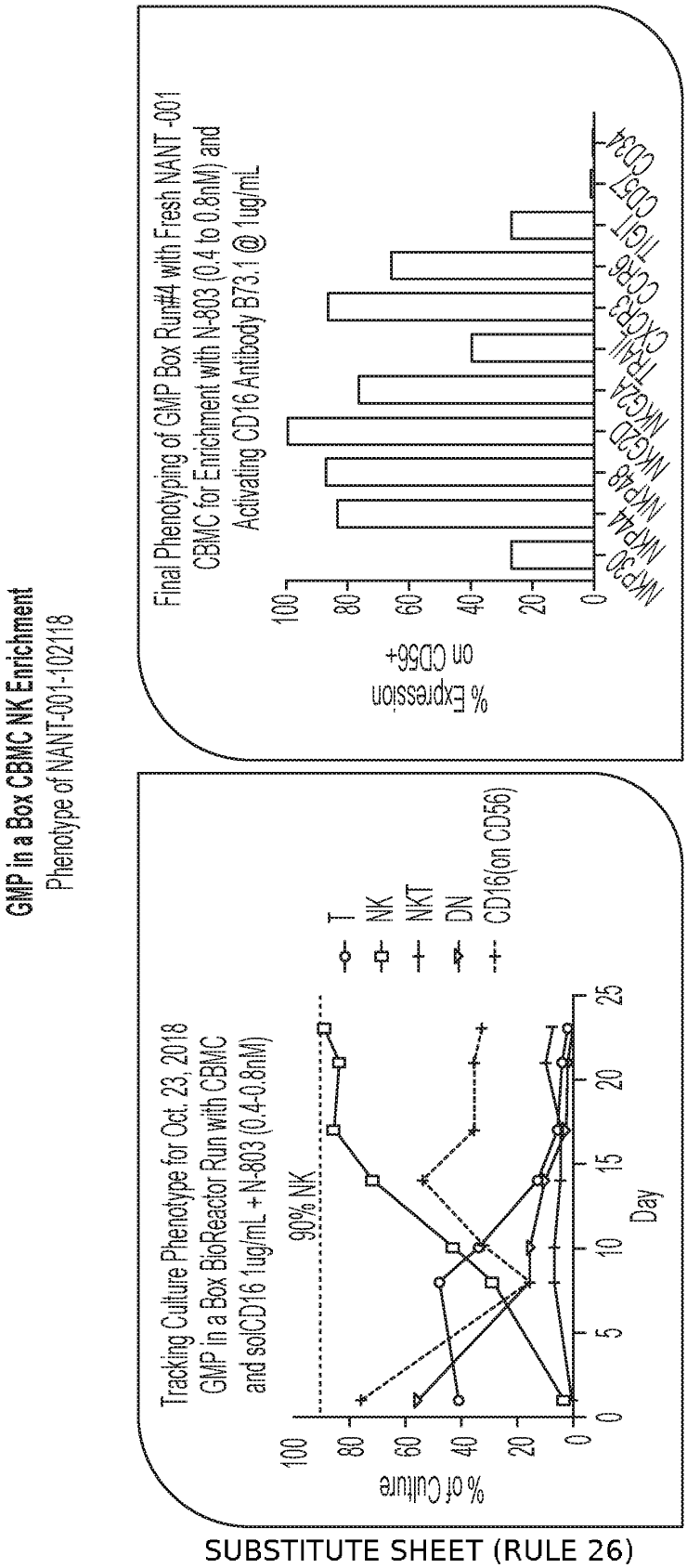

GMP in a Box CBMC NK Enrichment
Phenotype of NANT-001-102118
Tracking Culture Phenotype for Oct. 23, 2018
GMP in a Box BioReactor Run with CBMC
and solCD16 1ug/mL + N-803 (0.4-0.8nM)
90% NK
% of Culture
Day
T
NK
NKT
DN
CD16(on CD56)
Final Phenotyping of GMP Box Run#4 with Fresh NANT-001
CBMC for Enrichment with N-803 (0.4 to 0.8nM) and
Activating CD16 Antibody B73.1 @ 1ug/mL
% Expression
on CD56+
NKP30
NKP44
NKP46
NKG2D
NKG2A
PMIL
CXCR3
CCR6
TIGIT
CD57
CD34

Fig. 4