



CERTIFICATE OF ANALYSIS Carousel Ovarian Cell Model

Cell Model Name: **Carousel**
Product # **CB010**

Lot # 011917

Endometrioid Adenocarcinoma of the Ovary

Parameter	Result
STR marker analysis consistent with master lot	Pass
The STR genetic profile is a unique profile not found in the current public databases	Pass
Found free of microbial contamination by direct culture	Pass
Negative for mycoplasma by PCR	Pass
Negative for human viral pathogens (HIV1, HIV2, Hepatitis A, Hepatitis B, Hepatitis C, HTLV1, HTLV2)	Pass
Cell growth is comparable to (within 10%) or greater than the original growth curve	Pass

STR FULL PROFILE

AMEL: X
CSF1PO: 10, 11
D13S317: 9, 11
D16S539: 12
D5S818: 11, 12
D7S820: 10, 12
TH01: 7, 9
TPOX: 8
vWA: 18, 19
vWA: 18, 19

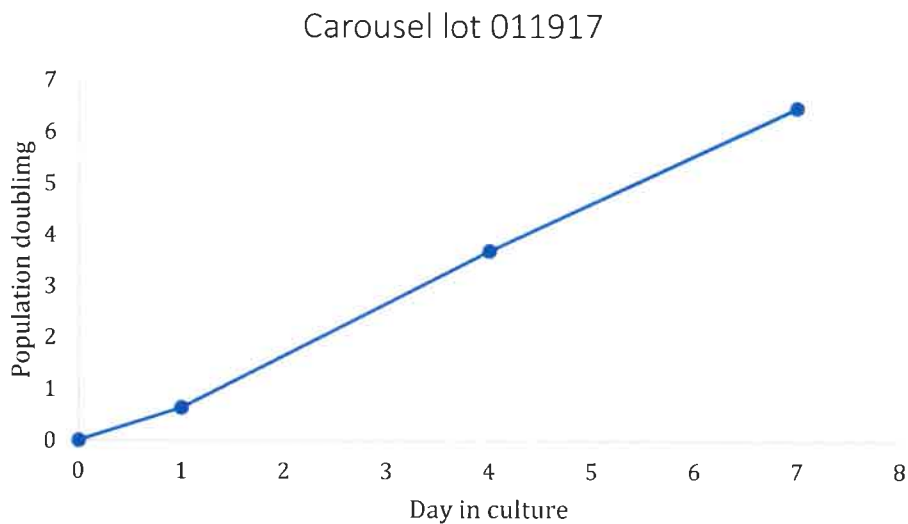


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CELL GROWTH DATA

One vial of Lot 011917 was thawed and plated in a T-25 flask. This culture was passaged three times in Renaissance Essential Tumor Medium per the Cell Passaging SOP. If the lot-specific cell passaging SOP is followed, similar growth rates may be achieved.

Doubling Time: 1.16 Days



passage interval	number seeded	number harvested	days elapsed
1	500000	780000	1
2	120000	1000000	3
3	120000	820000	3

Data for Carousel Cell Line manufacturing lot # **011917** has been reviewed and approved for release

Signature

6/30/2017
Date