Nasal swabs samples analyzes for FreezerPro import

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File informations

```
path <- "/Volumes/LabExMI/Users/Nolwenn/FreezerPro/DataToImport/"
filename <- "Nasal_Swabs_rack_samples.csv"
df.samples <- read.csv(file = paste(path, filename, sep =""),
                       header=TRUE, sep=',', stringsAsFactors = TRUE)
```

QC of a file generated to import Stool aliquot sample information into FreezerPro.

- **Filename**: Nasal_Swabs_rack_samples.csv
- **file creation date:** 2016-08-25
- **number of rows:** 2696
- **number of columns:** 25
- **column names:** barcodeId, donorId, visitId, batchId, volume, aliquotId, rackId, well, deleted, insertDate, updateDate, BoxID, BoxPosition, RackID, TubeScan, DonorIdscanned, Level2, Box, Freezer, Level1, Level1_Desc, Level2_Desc, Level3, Level3_Desc, BoxType

Data informations

Freezers:

Expect each Freezer is assign to it respective barcode.

```
result <- data.frame(table(df.samples[,c("Freezer")], useNA = "ifany"))
colnames(result) <- c("Freezer", "# tubes")
pander::pander(result)
```

Freezer	# tubes
1536	614
1538	187
NA	1895

Comment: only 763 lines are assigned to a Freezer. FreezerPro import will only implement 763 lines.

Sample box type:

Expect each sample is assign to the expected Box Type for FreezerPro.

```
result <- data.frame(table(df.samples[,"BoxType"], useNA = "ifany"))
colnames(result) <- c("BoxType", "# tubes")
pander::pander(result)
```

BoxType	# tubes
	1895
Nasal_Box_9x9	801

Comment: only 763 lines are assigned to a Box Type. FreezerPro import will only implement 763 lines.

Shelves:

Expect each Shelf is assign to the expected barcode.

```
result <- data.frame(table(df.samples[,"Level1"], useNA = "ifany"))
colnames(result) <- c("Level1", "# tubes")
pander::pander(result)
```

Level1	# tubes
	1895
Shelf 4	187
Shelf 5	614

Comment: only 763 lines are assigned to a Shelf. FreezerPro import will only implement 763 lines.

Racks:

```
result <- data.frame(table(df.samples[,"Level2"], useNA = "ifany"))
colnames(result) <- c("Level2", "# tubes")
pander::pander(result)
```

Level2	# tubes
Freezer_5thFloor	64
Left Rack 01	576
Left Rack 05	474
Left Rack 07	362
Rack 03 + 4 boxes of stools samples (rack#5)	355
Right Rack 02	187
Right Rack 04	230
Right Rack 06	211
Right Rack 08	237

```
result <- ddply(df.samples, .(Level1, Level2), nrow)
colnames(result) <- c("Level1", "Level2", "# tubes")
pander::pander(result)
```

Level1	Level2	# tubes
	Freezer_5thFloor	64
	Left Rack 05	474
	Left Rack 07	362
	Rack 03 + 4 boxes of stools samples (rack#5)	317
	Right Rack 04	230
	Right Rack 06	211
	Right Rack 08	237
Shelf 4	Right Rack 02	187
Shelf 5	Left Rack 01	576
Shelf 5	Rack 03 + 4 boxes of stools samples (rack#5)	38

```
result <- colSums(table(df.samples[,c("Level1","Level2")], useNA = "ifany"))
pander::pander(result)
```

Table 6: Table continues below

Freezer_5thFloor	Left Rack 01	Left Rack 05	Left Rack 07
64	576	474	362

Table 7: Table continues below

Rack 03 + 4 boxes of stools samples (rack#5)	Right Rack 02	Right Rack 04	Right Rack 06
355	187	230	211

Right Rack 08
237

```
result <- ddply(df.samples, .(Level2, Box), nrow)
colnames(result) <- c("Level2", "Box", "# tubes")
pander::pander(result)
```

Level2	Box	# tubes
Freezer_5thFloor	box 36	39
Freezer_5thFloor	box 37	25
Left Rack 01	box 1	82
Left Rack 01	box 10	42
Left Rack 01	box 2	81
Left Rack 01	box 3	81
Left Rack 01	box 4	95
Left Rack 01	box 5	40
Left Rack 01	box 6	38
Left Rack 01	box 7	39
Left Rack 01	box 8	39
Left Rack 01	box 9	39
Left Rack 05	box 18	39
Left Rack 05	box 19	76
Left Rack 05	box 20	78
Left Rack 05	box 21	79
Left Rack 05	box 22	10
Left Rack 05	box 23	38
Left Rack 05	box 24	39
Left Rack 05	box 25	37
Left Rack 05	box 26	40
Left Rack 05	box 27	38
Left Rack 07	box 28	76
Left Rack 07	box 29	78
Left Rack 07	box 30	79
Left Rack 07	box 31	27

Level2	Box	# tubes
Left Rack 07	box 32	24
Left Rack 07	box 33	39
Left Rack 07	box 34	39
Rack 03 + 4 boxes of stools samples (rack#5)	box 10	38
Rack 03 + 4 boxes of stools samples (rack#5)	box 11	77
Rack 03 + 4 boxes of stools samples (rack#5)	box 12	39
Rack 03 + 4 boxes of stools samples (rack#5)	box 13	50
Rack 03 + 4 boxes of stools samples (rack#5)	box 14	34
Rack 03 + 4 boxes of stools samples (rack#5)	box 15	39
Rack 03 + 4 boxes of stools samples (rack#5)	box 16	39
Rack 03 + 4 boxes of stools samples (rack#5)	box 17	39
Right Rack 02	box 5	39
Right Rack 02	box 6	38
Right Rack 02	box 7	33
Right Rack 02	box 8	39
Right Rack 02	box 9	38
Right Rack 04	box 12	40
Right Rack 04	box 13	41
Right Rack 04	box 14	72
Right Rack 04	box 16	39
Right Rack 04	box 17	30
Right Rack 04	box 18	8
Right Rack 06	box 22	37
Right Rack 06	box 23	20
Right Rack 06	box 24	39
Right Rack 06	box 25	38
Right Rack 06	box 26	38
Right Rack 06	box 27	39
Right Rack 08	box 31	39
Right Rack 08	box 32	27
Right Rack 08	box 33	24
Right Rack 08	box 34	39
Right Rack 08	box 35	78
Right Rack 08	box 36	30

```
result <- data.frame(colSums(table(df.samples[,c("Box","Level2")])))
pander::pander(result)
```

	colSums.table.df.samples. . . c..Box. . . .Level2. . . ..
Freezer__5thFloor	64
Left Rack 01	576
Left Rack 05	474
Left Rack 07	362

	colSums.table.df.samples. . . c..Box. . . .Level2. . . ..
Rack 03 + 4 boxes of stools samples (rack#5)	355
Right Rack 02	187
Right Rack 04	230
Right Rack 06	211
Right Rack 08	237

Comment: only 763 lines are assigned to a Rack. FreezerPro import will only implement 763 lines.

Box:

```
result <- ddply(df.samples, .(Level2, Box), nrow)
colnames(result) <- c("Level2", "Box", "# tubes")
pander::pander(result)
```

Level2	Box	# tubes
Freezer_5thFloor	box 36	39
Freezer_5thFloor	box 37	25
Left Rack 01	box 1	82
Left Rack 01	box 10	42
Left Rack 01	box 2	81
Left Rack 01	box 3	81
Left Rack 01	box 4	95
Left Rack 01	box 5	40
Left Rack 01	box 6	38
Left Rack 01	box 7	39
Left Rack 01	box 8	39
Left Rack 01	box 9	39
Left Rack 05	box 18	39
Left Rack 05	box 19	76
Left Rack 05	box 20	78
Left Rack 05	box 21	79
Left Rack 05	box 22	10
Left Rack 05	box 23	38
Left Rack 05	box 24	39
Left Rack 05	box 25	37
Left Rack 05	box 26	40
Left Rack 05	box 27	38
Left Rack 07	box 28	76
Left Rack 07	box 29	78
Left Rack 07	box 30	79
Left Rack 07	box 31	27
Left Rack 07	box 32	24
Left Rack 07	box 33	39
Left Rack 07	box 34	39
Rack 03 + 4 boxes of stools samples (rack#5)	box 10	38
Rack 03 + 4 boxes of stools samples (rack#5)	box 11	77
Rack 03 + 4 boxes of stools samples (rack#5)	box 12	39

Level2	Box	# tubes
Rack 03 + 4 boxes of stools samples (rack#5)	box 13	50
Rack 03 + 4 boxes of stools samples (rack#5)	box 14	34
Rack 03 + 4 boxes of stools samples (rack#5)	box 15	39
Rack 03 + 4 boxes of stools samples (rack#5)	box 16	39
Rack 03 + 4 boxes of stools samples (rack#5)	box 17	39
Right Rack 02	box 5	39
Right Rack 02	box 6	38
Right Rack 02	box 7	33
Right Rack 02	box 8	39
Right Rack 02	box 9	38
Right Rack 04	box 12	40
Right Rack 04	box 13	41
Right Rack 04	box 14	72
Right Rack 04	box 16	39
Right Rack 04	box 17	30
Right Rack 04	box 18	8
Right Rack 06	box 22	37
Right Rack 06	box 23	20
Right Rack 06	box 24	39
Right Rack 06	box 25	38
Right Rack 06	box 26	38
Right Rack 06	box 27	39
Right Rack 08	box 31	39
Right Rack 08	box 32	27
Right Rack 08	box 33	24
Right Rack 08	box 34	39
Right Rack 08	box 35	78
Right Rack 08	box 36	30