

Integrating SAS® and Microsoft Excel: Exploring the Many Options Available to You

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Excel Workbook to Import

	A	B	C	D	E	F	G	H	I	J	K
1	Unique Subject Identifier	LAB Test or Examination Name	Age in AGEU at RFSTDTC	Age Units	Sex	Baseline Result in Std. Units	Baseline Std. Units	Visit 5 Result in Std. Units	Visit 5 Std. Units	Baseline Collection Date/Time	Visit 5 Collection Date/Time
2	01-701-1034	CALCIUM	77	YEARS	F	2.54490	mmol/L	2.44510	mmol/L	6/24/2014 15:30	7/29/2014 8:40
3	01-701-1133	CALCIUM	81	YEARS	F	2.32035	mmol/L	2.29540	mmol/L	10/23/2012 10:57	11/26/2012 11:52
4	01-701-1146	CALCIUM	75	YEARS	F	2.32035	mmol/L	2.32035	mmol/L	5/7/2013 13:52	6/16/2013 12:45
5	01-701-1287	CALCIUM	56	YEARS	F	2.27045	mmol/L	2.09580	mmol/L	1/17/2014 12:16	2/20/2014 11:09
6	01-701-1383	CALCIUM	72	YEARS	F	2.22055	mmol/L	2.27045	mmol/L	1/22/2013 11:43	3/12/2013 11:50
7	01-703-1258	CALCIUM	78	YEARS	F	2.17065	mmol/L	2.29540	mmol/L	7/10/2012 16:30	8/17/2012 11:15
8	01-703-1295	CALCIUM	88	YEARS	F	2.32035	mmol/L	2.32035	mmol/L	10/24/2013 12:10	12/18/2013 12:45
9	01-703-1335	CALCIUM	67	YEARS	F	2.34530	mmol/L	2.32035	mmol/L	12/28/2013 16:10	4/13/2014 10:00

ASPARTATE AMINOTRANSFERASE | BASOPHILS | BILIRUBIN | **CALCIUM** | CHLORIDE | CHOLESTEROL | ...

SAS Data Set to Export

Variable	Type	Length	Format	Label
AGE	Numeric	8		Age in AGEU at RFSTDTC
AGEU	Character	6		Age Units
COUNTRY	Character	3		Country
SEX	Character	1		Sex
arm	Character	20		Description of Planned Arm
baseline_lbdtn	Numeric	8	E8601DT19.	Baseline Collection Date/Time
baseline_lbstresn	Numeric	8		Baseline Result in Std. Units
baseline_lbstresu	Character	8		Baseline Std. Units
baseline_visitnum	Numeric	8		Baseline Visit Number
lbtest	Character	38		LAB Test or Examination Name
race	Character	78		Race
studyid	Character	12		Study Identifier
usubjid	Character	11		Unique Subject Identifier
visit5_lbdtn	Numeric	8	E8601DT19.	Visit 5 Collection Date/Time
visit5_lbstresn	Numeric	8		Visit 5 Result in Std. Units
visit5_lbstresu	Character	8		Visit 5 Std. Units
visit5_visitnum	Numeric	8		Visit 5 Visit Number
...

VALIDVARNAME=any: SAS system option that allows special characters in SAS variable names

VALIDMEMNAME=extend: SAS system option that allows special characters in SAS data set names

SAS Name Literal Syntax Examples: var 'My Variable Name'n; data work.'My Data Set Name'n;

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Import Excel Data Examples

```
proc import out=work.calcium file='Calcium.csv' dbms=csv replace;
  guessingrows=max;
run; quit;
```

```
data _null_; infile 'Calcium.csv'; input ... ; run;
```

```
proc import out=work.calcium file='LabResults.xlsx' dbms=xlsx replace;
  sheet='calcium';
run; quit;
```

```
libname xl xlsx 'LabResults.xlsx';
```

```
data work.calcium; set xl.calcium; run;
```

```
proc datasets nolist; copy in=xl out=work; run; quit;
```

Base SAS

SAS/ACCESS
Interface to
PC Files

Export SAS Data Examples

```
proc export data=sample.LabResults file='LabResults.csv' dbms=csv replace;
run; quit;
```

```
data _null_; infile 'Calcium.csv'; input ... ; run;
```

```
ods Excel file='LabResults.xlsx' options( ... );
  proc print data=sample.LabResults; ... ; run; quit;
run; quit;
```

```
libname xl xlsx 'LabResults.xlsx';
```

```
data xl.Albumin; set sample.LabResults; where (lbtest eq 'ALBUMIN'); run;
data xl.Calcium; set sample.LabResults; where (lbtest eq 'CALCIUM'); run;
```

```
proc datasets; copy in=mylib out=xl; select ... / memtype=data; run; quit;
```

Base SAS

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Paper, Data, and Code

<https://github.com/sascommunities/sas-global-forum-2019/blob/master/2991-2019-DelGobbo>

Other Papers

<http://www.sas.com/reg/gen/corp/867226?page=Resources>

or

<http://support.sas.com/rnd/papers/intro-multisheet-excel-with-sas/index.html>

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