

APPENDIX 1

label list

method:

- 1 original
- 2 Allender
- 3 Novigen
- 4 MaxLIP1

. sort meth

. by meth: summarize residue,detail

-> meth=original

residue					

Percentiles	Smallest				
1%	.002512	.0011884			
5%	.0055915	.0015736			
10%	.0087305	.001632	Obs	450	
25%	.01904	.0024258	Sum of Wgt.	450	
50%	.0446428		Mean	.1001748	
		Largest	Std. Dev.	.1898224	
75%	.1051224	1.021243			
90%	.2268092	1.247094	Variance	.0360326	
95%	.3613527	1.335169	Skewness	6.774018	
99%	.8992397	2.533085	Kurtosis	70.76885	

-> meth=Allender

residue					

Percentiles	Smallest				
1%	.00409	.0021			
5%	.00833	.0027			
10%	.01239	.00279	Obs	450	
25%	.02479	.00396	Sum of Wgt.	450	
50%	.052905		Mean	.1003352	
		Largest	Std. Dev.	.1565942	
75%	.11334	.85673			
90%	.22464	1.02339	Variance	.0245217	

95%	.33996	1.08744	Skewness	5.593789
99%	.76505	1.92235	Kurtosis	51.01083

-> meth= Novigen

residue

```
-----
Percentiles  Smallest
1% .0014286 .0010695
5% .0043364 .0010941
10% .0079836 .0011415  Obs          450
25% .0190545 .0011662  Sum of Wgt.  450

50% .0489341          Mean          .0985186
      Largest  Std. Dev.    .1263297
75% .1186389 .5417213
90% .243962 .5599318  Variance     .0159592
95% .4451822 .5666574  Skewness     2.145612
99% .5308715 .7022806  Kurtosis     7.231329
```

-> meth= MaxLIP1

residue

```
-----
Percentiles  Smallest
1% .00346 .001578
5% .00758 .00219
10% .0115985 .002772  Obs          450
25% .023184 .00313  Sum of Wgt.  450

50% .051655          Mean          .1002643
      Largest  Std. Dev.    .154345
75% .113096 .883497
90% .228798 1.01795  Variance     .0238224
95% .353235 1.24546  Skewness     4.72429
99% .755985 1.61948  Kurtosis     35.03111
```

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0778	0.066	
Allender:	-0.0111	0.946	
Combined K-S:	0.0778	0.131	0.115

```
. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)
```

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0467	0.375	
Novigen:	-0.0222	0.801	
Combined K-S:	0.0467	0.711	0.682

```
. with logres meth if meth==1|meth==4: ksmirnov logres, by(meth)
```

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0578	0.223	
MaxLIP1:	-0.0067	0.980	
Combined K-S:	0.0578	0.440	0.408

```
. qqplot logres1 logres1, xlab(-7(1) 0) ylab(-7(1) 0) saving(pic101)
```

```
. qqplot logres1 logres2, xlab(-7(1) 0) ylab(-7(1) 0) saving(pic102)
```

```
. qqplot logres1 logres3, xlab(-7(1) 0) ylab(-7(1) 0) saving(pic103)
```

```
. qqplot logres1 logres4, xlab(-7(1) 0) ylab(-7(1) 0) saving(pic104)
```

```
. graph using pic101 pic102 pic103 pic104, margin(15) saving(pic100)
```

Q-Q PLOTS: theo_CV=2_30comp_uncensored

STATA LOG FILE/OUTPUT: theo_CV=1_30comp_censored.log

label list

method:

- 1 original
- 2 MaxLIP1
- 3 MaxLIP2
- 4 MaxLIP3
- 5 MaxLIP4
- 6 MaxLIP5
- 7 Allender
- 8 Novigen

. sort meth

. by meth: summarize residue, detail

-> meth=original

```
                residue
-----
```

Percentiles		Smallest		
1%	.0104443	.0064023		
5%	.0182625	.0078619		
10%	.0241493	.0087233	Obs	450
25%	.040491	.0094144	Sum of Wgt.	450
50%			Mean	.1000437
		Largest	Std. Dev.	.0991227
75%	.1241246	.5153022		
90%	.2044574	.609885	Variance	.0098253
95%	.2848463	.6113446	Skewness	3.384686
99%	.5067896	.9999917	Kurtosis	22.12941

-> meth= MaxLIP1

```
                residue
-----
```

Percentiles		Smallest		
1%	.006801	.003112		
5%	.012948	.004712		
10%	.018105	.00522	Obs	450
25%	.033539	.006293	Sum of Wgt.	450
50%			Mean	.0982464
		Largest	Std. Dev.	.1065999

75%	.122838	.568162		
90%	.2168105	.620855	Variance	.0113635
95%	.293713	.709869	Skewness	3.071871
99%	.538324	.951251	Kurtosis	17.23734

-> meth= MaxLIP2

residue

```
-----
```

Percentiles	Smallest		
1%	.0341	.0218	
5%	.0501	.0273	
10%	.0636	.0297	Obs 450
25%	.0776	.0323	Sum of Wgt. 450
50%	.08645		Mean .1039447
		Largest	Std. Dev. .0563251
75%	.11	.361	
90%	.168	.391	Variance .0031725
95%	.213	.434	Skewness 2.899569
99%	.34	.509	Kurtosis 14.91835

-> meth= MaxLIP3

residue

```
-----
```

Percentiles	Smallest		
1%	.00804	0	
5%	.0209	0	
10%	.0284	0	Obs 450
25%	.0458	0	Sum of Wgt. 450
50%	.0761		Mean .0980601
		Largest	Std. Dev. .081478
75%	.125	.442	
90%	.19	.469	Variance .0066387
95%	.247	.56	Skewness 2.621793
99%	.417	.717	Kurtosis 14.33496

-> meth= MaxLIP4

residue

```
-----
```

Percentiles	Smallest		
1%	.0488	1.09e-26	
5%	.0696	4.13e-23	
10%	.0737	6.17e-21	Obs 450
25%	.0811	1.10e-18	Sum of Wgt. 450

50%	.09205		Mean	.1020758
		Largest	Std. Dev.	.0318593
75%	.119	.203		
90%	.1485	.209	Variance	.001015
95%	.165	.218	Skewness	.8910966
99%	.198	.234	Kurtosis	4.740295

-> meth= MaxLIP5

residue

```
-----
```

	Percentiles	Smallest		
1%	.0623	1.72e-23		
5%	.071	.0502		
10%	.07455	.0577	Obs	450
25%	.0814	.0605	Sum of Wgt.	450

50%	.09255		Mean	.1037798
		Largest	Std. Dev.	.0329351
75%	.119	.22		
90%	.15	.225	Variance	.0010847
95%	.17	.241	Skewness	1.452663
99%	.214	.271	Kurtosis	5.832544

-> meth=Allender

residue

```
-----
```

	Percentiles	Smallest		
1%	.02129	.01464		
5%	.03263	.01713		
10%	.04039	.01855	Obs	450
25%	.05996	.01966	Sum of Wgt.	450

50%	.09156		Mean	.1124434
		Largest	Std. Dev.	.0792857
75%	.14113	.41884		
90%	.206655	.47641	Variance	.0062862
95%	.26626	.47728	Skewness	2.297578
99%	.41354	.69517	Kurtosis	11.94352

-> meth= Novigen

residue

```
-----
```

	Percentiles	Smallest
1%	.0004956	.000075

5%	.002254	.0003163		
10%	.0049331	.0004724	Obs	450
25%	.015895	.0004758	Sum of Wgt.	450
50%	.0455017		Mean	.0885098
		Largest	Std. Dev.	.1153374
75%	.1068703	.5294565		
90%	.238763	.5486197	Variance	.0133027
95%	.368078	.5711085	Skewness	2.228153
99%	.5110412	.5974749	Kurtosis	7.83988

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0133	0.923	
MaxLIP1:	-0.0711	0.103	
Combined K-S:	0.0711	0.205	0.182

. with logres meth if meth==1|meth==7: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.1756	0.000	
Allender:	-0.0133	0.923	
Combined K-S:	0.1756	0.000	0.000

. with logres meth if meth==1|meth==8: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0356	0.566	
Novigen:	-0.2422	0.000	
Combined K-S:	0.2422	0.000	0.000

. qqplot logres1 logres1, xlab(-10(2) 0) ylab(-10(2) 0) saving(pic201)

. qqplot logres1 logres7, xlab(-10(2) 0) ylab(-10(2) 0) saving(pic202)

```
. qqplot logres1 logres8, xlab(-10(2) 0) ylab(-10(2) 0) saving(pic203)  
. qqplot logres1 logres2, xlab(-10(2) 0) ylab(-10(2) 0) saving(pic204)  
. graph using pic201 pic202 pic203 pic204, margin(15) saving(pic200)
```

Q-Q PLOTS: theo_CV=1_30comp_censored

STATA LOG FILE/OUTPUT: theo_cv=1_10comp_uncensored.

label list

method:

- 1 original
- 2 Allender
- 3 Novigen
- 4 MaxLIP1

. sort meth

. by meth: summarize residue, detail

-> meth=original

residue

```
-----  
Percentiles  Smallest  
1%   .0106457   .0064023  
5%   .0182469   .0106457  
10%  .0242162   .0113911  Obs           150  
25%  .0403267   .0131453  Sum of Wgt.   150  
  
50%  .0705089  
      Largest  Mean      .099377  
      Std. Dev. .0937839  
75%  .1241246   .3799233  
90%  .2044574   .4373933  Variance     .0087954  
95%  .2848463   .5153022  Skewness     2.524185  
99%  .5153022   .609885  Kurtosis     11.3392
```

-> meth=Allender

residue

```
-----  
Percentiles  Smallest  
1%   .01         .01  
5%   .02         .01  
10%  .02         .01  Obs           150  
25%  .04         .01  Sum of Wgt.   150  
  
50%  .07  
      Largest  Mean      .0992667  
      Std. Dev. .0991785  
75%  .12         .4  
90%  .21         .46  Variance     .0098364  
95%  .29         .55  Skewness     2.650132  
99%  .55         .65  Kurtosis     12.13445
```

-> meth= Novigen

residue

Percentiles		Smallest		
1%	.0060007	.0024436		
5%	.0115108	.0060007		
10%	.0165487	.0066583	Obs	150
25%	.0333049	.0081255	Sum of Wgt.	150
50%		.0660467	Mean	.0980262
		Largest	Std. Dev.	.0936227
75%	.1280603	.4147782		
90%	.2227006	.4346096	Variance	.0087652
95%	.3116175	.4372376	Skewness	1.808153
99%	.4372376	.4562849	Kurtosis	6.300382

-> meth= MaxLIP1

residue

Percentiles		Smallest		
1%	.006678	.004565		
5%	.012775	.006678		
10%	.0181775	.008076	Obs	150
25%	.03228	.009358	Sum of Wgt.	150
50%		.0639495	Mean	.1010434
		Largest	Std. Dev.	.1133421
75%	.123211	.441192		
90%	.225403	.493464	Variance	.0128464
95%	.320747	.58564	Skewness	2.82956
99%	.58564	.777415	Kurtosis	13.52952

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group D P-value Corrected

original: 0.0267 0.899

Allender: -0.0667 0.513

Combined K-S: 0.0667 0.893 0.866

. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0333	0.846	
Novigen:	-0.0867	0.324	
Combined K-S:	0.0867	0.626	0.574

```
. with logres meth if meth==1|meth==4: ksmirnov logres, by(meth)
```

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0267	0.899	
MaxLIP1:	-0.0867	0.324	
Combined K-S:	0.0867	0.626	0.574

```
. qqplot logres1 logres1, xlab(-6(1) 0) ylab(-6(1) 0) saving(pic301)
```

```
. qqplot logres1 logres2, xlab(-6(1) 0) ylab(-6(1) 0) saving(pic202)  
file pic202.gph already exists  
r(602);
```

```
. qqplot logres1 logres2, xlab(-6(1) 0) ylab(-6(1) 0) saving(pic302)
```

```
. qqplot logres1 logres3, xlab(-6(1) 0) ylab(-6(1) 0) saving(pic303)
```

```
. qqplot logres1 logres4, xlab(-6(1) 0) ylab(-6(1) 0) saving(pic304)
```

```
. graph using pic301 pic302 pic303 pic304, margin(15) saving(pic300)
```

```
.
```


Q-Q PLOT: theo_cv=1_10comp_uncensored

STATA LOG FILE/OUTPUT: theo_cv=1_10comp_censored

label list

method:

- 1 original
- 2 Allender
- 3 Novigen
- 4 MaxLIP1

. sort meth

. by meth: summarize residue, detail

-> meth=original

residue

```
-----  
Percentiles  Smallest  
1%          .01065      .0064  
5%          .01825      .01065  
10%         .024215     .01139      Obs          150  
25%         .04033      .01315      Sum of Wgt. 150  
  
50%         .07051      Mean         .099377  
           Largest  Std. Dev.    .0937834  
75%         .12412      .37992  
90%         .20446      .43739      Variance     .0087953  
95%         .28485      .5153       Skewness     2.524163
```

99% .5153 .60988 Kurtosis 11.33908

-> meth=Allender

residue

Percentiles Smallest
1% .0144658 .0119897
5% .0292241 .0144658
10% .0396419 .018851 Obs 150
25% .0568663 .0241437 Sum of Wgt. 150

50% .0836838 Mean .1036115
 Largest Std. Dev. .0725697
75% .1248899 .2869433
90% .1856865 .2930372 Variance .0052664
95% .2471603 .3350985 Skewness 2.522367
99% .3350985 .5692753 Kurtosis 13.88663

-> meth= Novigen

residue

Percentiles Smallest
1% .0008644 .0007836
5% .0027517 .0008644
10% .0052957 .000879 Obs 150
25% .015139 .0012189 Sum of Wgt. 150

50% .0467842 Mean .0899784
 Largest Std. Dev. .1150946
75% .1135213 .4738443
90% .2398872 .4764183 Variance .0132468
95% .3712737 .483834 Skewness 2.158361
99% .483834 .5739807 Kurtosis 7.452154

-> meth= MaxLIP1

residue

Percentiles Smallest
1% .00457 .00321
5% .00931 .00457
10% .0137 .00557 Obs 150
25% .0274 .00634 Sum of Wgt. 150

50% .05785 Mean .1010811
 Largest Std. Dev. .124524

75%	.124	.484		
90%	.2375	.542	Variance	.0155062
95%	.334	.633	Skewness	2.977822
99%	.633	.868	Kurtosis	14.69869

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.1600	0.021	
Allender:	-0.0333	0.846	
Combined K-S:	0.1600	0.043	0.032

. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0400	0.787	
Novigen:	-0.2333	0.000	
Combined K-S:	0.2333	0.001	0.000

. with logres meth if meth==1|meth==4: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0333	0.846	
MaxLIP1:	-0.1333	0.069	
Combined K-S:	0.1333	0.139	0.111

. qqplot logres1 logres1, xlab (-8(2) 0) ylab(-8(2) 0) saving(pic401)

. qqplot logres1 logres2, xlab (-8(2) 0) ylab(-8(2) 0) saving(pic402)

. qqplot logres1 logres3, xlab (-8(2) 0) ylab(-8(2) 0) saving(pic403)

. qqplot logres1 logres4, xlab (-8(2) 0) ylab(-8(2) 0) saving(pic404)

. graph using pic401 pic402 pic403 pic404, margin(15) saving(pic400)

PLOT: theo_cv=1_10comp_censored

Q-Q

STATA LOG FILE/OUTPUT: theo2dist(25%)_cv=1 _cens.log

label list

method:

- 1 Original
- 2 Allender
- 3 Novigen
- 4 MaxLIP1
- 5 MaxLIP2
- 6 MaxLIP3
- 7 MaxLIP4
- 8 MaxLIP5

. sort meth

. by meth: summarize residue, detail

-> meth=Original

```
                residue
-----
    Percentiles  Smallest
  1%   .013145   .006402
  5%   .024512   .010444
 10%   .0344085   .010646   Obs           450
 25%   .061403   .011391   Sum of Wgt.   450

 50%   .1211225           Mean           .2046446
                Largest   Std. Dev.     .2646265
 75%   .247587   1.303771
 90%   .450136   1.550776   Variance      .0700272
 95%   .637528   1.922001   Skewness      4.668925
 99%   1.272551   3.059975   Kurtosis      38.87212
```

-> meth=Allender

```
                residue
-----
    Percentiles  Smallest
  1%   .0123877   .0041459
  5%   .025437   .0078348
 10%   .0387616   .0104602   Obs           450
 25%   .0733772   .0119519   Sum of Wgt.   450
```

50%	.1536242		Mean	.274754
		Largest	Std. Dev.	.5237432
75%	.310614	2.12866		
90%	.5808705	2.385667	Variance	.2743069
95%	.8561678	2.637975	Skewness	11.33465
99%	1.890491	9.082289	Kurtosis	181.0417

-> meth= Novigen

residue

```
-----
```

	Percentiles	Smallest		
1%	.0002374	.0000252		
5%	.0008388	.0000694		
10%	.0018749	.0001249	Obs	450
25%	.0111889	.0002316	Sum of Wgt.	450

50%	.0608923		Mean	.1939281
		Largest	Std. Dev.	.3284133
75%	.2058088	1.640383		
90%	.5631062	1.65851	Variance	.1078553
95%	.8685383	1.725988	Skewness	2.809264
99%	1.62936	1.875082	Kurtosis	11.26928

-> meth= MaxLIP1

residue

```
-----
```

	Percentiles	Smallest		
1%	.00121	.00039		
5%	.00345	.00066		
10%	.006345	.00092	Obs	450
25%	.01657	.00111	Sum of Wgt.	450

50%	.0496		Mean	.1959748
		Largest	Std. Dev.	.501669
75%	.15113	3.07284		
90%	.411	3.52139	Variance	.2516718
95%	.8328	3.97003	Skewness	5.954972
99%	2.7684	5.55595	Kurtosis	47.80728

-> meth= MaxLIP2

residue

```
-----
```

	Percentiles	Smallest
1%	.0209	.0133

5%	.0365	.0159		
10%	.04845	.0177	Obs	450
25%	.0786	.0195	Sum of Wgt.	450
50%	.14		Mean	.2084231
		Largest	Std. Dev.	.210582
75%	.26	1.13		
90%	.45	1.29	Variance	.0443448
95%	.603	1.45	Skewness	2.967521
99%	1.05	1.84	Kurtosis	16.3107

-> meth= MaxLIP3

residue

	Percentiles	Smallest		
1%	1.01e-23	9.48e-28		
5%	1.69e-18	1.05e-25		
10%	.0328	8.82e-25	Obs	450
25%	.0701	2.63e-24	Sum of Wgt.	450
50%	.1375		Mean	.2016791
		Largest	Std. Dev.	.2139922
75%	.262	1.15		
90%	.4435	1.26	Variance	.0457927
95%	.603	1.48	Skewness	2.889687
99%	1.03	1.86	Kurtosis	16.0941

-> meth= MaxLIP4

residue

	Percentiles	Smallest		
1%	1.06e-19	4.90e-22		
5%	4.05e-17	5.97e-21		
10%	6.42e-15	1.58e-20	Obs	450
25%	.0643	4.55e-20	Sum of Wgt.	450
50%	.1735		Mean	.1973293
		Largest	Std. Dev.	.1884106
75%	.27	.989		
90%	.3955	1.1	Variance	.0354986
95%	.532	1.22	Skewness	2.145598
99%	.915	1.44	Kurtosis	10.95138

-> meth= MaxLIP5

residue

Percentiles		Smallest		
1%	.0923	.0604		
5%	.113	.0749		
10%	.113	.0819	Obs	450
25%	.113	.0872	Sum of Wgt.	450
50%	.14		Mean	.2161073
		Largest	Std. Dev.	.1692832
75%	.259	.982		
90%	.3965	1.07	Variance	.0286568
95%	.55	1.18	Skewness	3.203414
99%	.905	1.62	Kurtosis	18.57704

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)
 unrecognized command: with
 r(199);

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
Original:	0.1000	0.011	
Allender:	-0.0044	0.991	
Combined K-S:	0.1000	0.022	0.018

. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
Original:	0.0356	0.566	
Novigen:	-0.3133	0.000	
Combined K-S:	0.3133	0.000	0.000

. with logres meth if meth==1|meth==4: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
---------------	---	---------	-----------

```
Original:      0.0267  0.726
MaxLIP1:      -0.3267  0.000
Combined K-S:  0.3267  0.000  0.000
```

```
. with logres meth if meth==1|meth==5: ksmirnov logres, by(meth)
```

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
Original:	0.0978	0.014	
MaxLIP2:	-0.0133	0.923	
Combined K-S:	0.0978	0.027	0.022

```
. label list
method:
```

- 1 Original
- 2 Allender
- 3 Novigen
- 4 MaxLIP1
- 5 MaxLIP2
- 6 MaxLIP3
- 7 MaxLIP4
- 8 MaxLIP5

```
. label var logres 1 "Original"
invalid syntax
r(198);
```

```
. label var logres1 "Original"
```

```
. label var logres2 "Allender"
```

```
. label var logres3 "Novigen"
```

```
. label var logres4 "MaxLIP1"
```

```
. label var logres5 "MaxLIP2"
```

```
. qqplot logres1 logres1, xlab (-12(2) 2) ylab(-12(2) 2)
```

```
. qqplot logres1 logres1, xlab (-12(2) 2) ylab(-12(2) 2) saving(pic501)
```

```
. qqplot logres1 logres2, xlab (-12(2) 2) ylab(-12(2) 2) saving(pic502)
```

```
. qqplot logres1 logres3, xlab (-12(2) 2) ylab(-12(2) 2) saving(pic503)
. qqplot logres1 logres4, xlab (-12(2) 2) ylab(-12(2) 2) saving(pic504)
. qqplot logres1 logres5, xlab (-12(2) 2) ylab(-12(2) 2) saving(pic505)
. graph using pic501 pic502 pic503 pic504 pic505, margin(15) saving(pic500)
.
```

Q-Q PLOT: theo2dist(25%)_cv=1_cens.log

STATA LOG FILE/OUTPUT: theo2dist(10%)_cv=1 _cens.log

label list

method:

- 1 original
- 2 MaxLIP1
- 3 MaxLIP2
- 4 MaxLIP3
- 5 MaxLIP4
- 6 MaxLIP5
- 7 Novigen
- 8 Allender

. sort meth

. by meth: summarize residue, detail

-> meth=original

residue

Percentiles		Smallest		
1%	.013145	.006402		
5%	.025809	.010444		
10%	.035604	.010646	Obs	450
25%	.070851	.011391	Sum of Wgt.	450
50%		.2063645	Mean	.4797407
		Largest	Std. Dev.	.746337
75%	.60958	3.6846		
90%	1.19396	4.34091	Variance	.557019
95%	1.6318	5.13767	Skewness	4.601158
99%	3.58921	8.42393	Kurtosis	37.23031

-> meth= MaxLIP1

residue

Percentiles		Smallest		
1%	.00025	.0000573		
5%	.000949	.000111		
10%	.00214	.000154	Obs	450
25%	.008	.000207	Sum of Wgt.	450
50%		.03425	Mean	.4977525

		Largest	Std. Dev.	1.870777
75%	.149	12.2		
90%	.615	13.2	Variance	3.499808
95%	2.07	14.7	Skewness	5.631229
99%	11.3	16.7	Kurtosis	37.28558

-> meth= MaxLIP2

residue

	Percentiles	Smallest		
1%	.0203	.0103		
5%	.0339	.0149		
10%	.0466	.0177	Obs	450
25%	.0843	.0189	Sum of Wgt.	450
50%	.199		Mean	.4859113
		Largest	Std. Dev.	.7390395
75%	.581	4.04		
90%	1.23	4.52	Variance	.5461794
95%	1.84	5.03	Skewness	3.689396
99%	3.71	6.86	Kurtosis	22.47118

-> meth= MaxLIP3

residue

	Percentiles	Smallest		
1%	.0151	.00701		
5%	.0339	.0106		
10%	.05625	.0126	Obs	450
25%	.112	.0135	Sum of Wgt.	450
50%	.1805		Mean	.4896067
		Largest	Std. Dev.	.7602744
75%	.592	4.02		
90%	1.205	4.52	Variance	.5780172
95%	1.82	5.43	Skewness	4.116962
99%	3.72	7.68	Kurtosis	28.13415

-> meth= MaxLIP4

residue

	Percentiles	Smallest		
1%	7.47e-27	6.94e-30		
5%	1.83e-23	2.29e-28		
10%	1.86e-20	9.07e-28	Obs	450

25%	.067	2.30e-27	Sum of Wgt.	450
50%	.223		Mean	.4754802
		Largest	Std. Dev.	.5962599
75%	.728	2.84		
90%	1.255	3.1	Variance	.3555259
95%	1.58	3.56	Skewness	2.276724
99%	2.66	4.66	Kurtosis	11.01786

-> meth= MaxLIP5

residue

	Percentiles	Smallest		
1%	.000682	.0000995		
5%	.00837	.00022		
10%	.0751	.000373	Obs	450
25%	.112	.000539	Sum of Wgt.	450
50%	.237		Mean	.5076794
		Largest	Std. Dev.	.6039606
75%	.749	2.97		
90%	1.145	3.26	Variance	.3647685
95%	1.55	3.78	Skewness	3.224579
99%	2.68	6.16	Kurtosis	22.79787

-> meth= Novigen

residue

	Percentiles	Smallest		
1%	.0000169	4.69e-06		
5%	.0001228	7.30e-06		
10%	.0003898	.0000107	Obs	450
25%	.0034506	.0000137	Sum of Wgt.	450
50%	.0755196		Mean	.4644568
		Largest	Std. Dev.	.9707761
75%	.4803623	5.32036		
90%	1.261279	5.636536	Variance	.9424062
95%	2.099527	6.184605	Skewness	3.619737
99%	5.188283	6.280733	Kurtosis	17.46399

-> meth=Allender

residue

	Percentiles	Smallest
--	-------------	----------

1%	.01152	.00751		
5%	.03316	.00899		
10%	.05105	.0102	Obs	450
25%	.11684	.01099	Sum of Wgt.	450
50%	.282035		Mean	.6501363
		Largest	Std. Dev.	1.121444
75%	.69361	6.15467		
90%	1.52257	8.66661	Variance	1.257638
95%	2.50073	9.71312	Skewness	4.558668
99%	5.90843	9.74456	Kurtosis	30.28356

. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0511	0.309	
MaxLIP2:	-0.0311	0.647	
Combined K-S:	0.0511	0.599	0.567

. with logres meth if meth==1|meth==7: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0244	0.764	
Novigen:	-0.3644	0.000	
Combined K-S:	0.3644	0.000	0.000

. with logres meth if meth==1|meth==8: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.1311	0.000	
Allender:	-0.0044	0.991	
Combined K-S:	0.1311	0.001	0.001

. qqplot logres1 logres1, xlab(-13(1) 2) ylab(-13(1) 2) saving(pic601)

```
. qqplot logres1 logres8, xlab(-13(1) 2) ylab(-13(1) 2) saving(pic601)
file pic601.gph already exists
r(602);

. qqplot logres1 logres8, xlab(-13(1) 2) ylab(-13(1) 2) saving(pic602)

. qqplot logres1 logres7, xlab(-13(1) 2) ylab(-13(1) 2) saving(pic603)

. qqplot logres1 logres3, xlab(-13(1) 2) ylab(-13(1) 2) saving(pic604)

. graph using pic601 pic602 pic603 pic604, margin(15) saving(pic600)
```

Q-Q PLOT: theor_2dist(10%)_cv=1 _cens.log

STATA LOG FILE/OUTPUT: novartis_diazinon_peaches

label list

method:

- 1 field trial single-item
- 2 Allender
- 3 Novigen
- 4 MaxLIP1
- 5 MaxLIP2
- 6 MaxLIP3
- 7 MaxLIP4
- 8 MaxLIP5

. sort meth

. by meth: summarize residue, detail

-> meth=field trial single-item
residue

```
-----  
Percentiles  Smallest  
1%          .0035      .001  
5%          .006       .003  
10%         .01        .004      Obs          200  
25%         .0195     .004      Sum of Wgt. 200  
  
50%         .067  
Largest     Mean        .144605  
Std. Dev.   .2047197  
75%         .1855     .829  
90%         .4175     .877      Variance     .0419101  
95%         .51       1.069     Skewness     2.965827  
99%         .973     1.499     Kurtosis     15.00825
```

-> meth= Allender
residue

```
-----  
Percentiles  Smallest  
1%          .01        0  
5%          .015      .01  
10%         .02       .01      Obs          200  
25%         .04       .01      Sum of Wgt. 200  
  
50%         .08  
Largest     Mean        .14705  
Std. Dev.   .1920997
```

75%	.17	.75		
90%	.36	.91	Variance	.0369023
95%	.525	1.14	Skewness	3.194047
99%	1.025	1.43	Kurtosis	16.80296

-> meth= Novigen
residue

Percentiles		Smallest		
1%	.0008437	.0003666		
5%	.0046175	.0005848		
10%	.0076326	.0011025	Obs	200
25%	.0242813	.0012014	Sum of Wgt.	200
50%		.0757128	Mean	.1432559
		Largest	Std. Dev.	.1753759
75%	.1751336	.7213647		
90%	.4211342	.755182	Variance	.0307567
95%	.5299276	.7655723	Skewness	1.770232
99%	.7603771	.7718232	Kurtosis	5.564711

-> meth= MaxLIP1
residue

Percentiles		Smallest		
1%	.00527	.00329		
5%	.01152	.00478		
10%	.01755	.00576	Obs	200
25%	.03457	.00676	Sum of Wgt.	200
50%		.07455	Mean	.14387
		Largest	Std. Dev.	.217439
75%	.160745	.89415		
90%	.317935	1.03781	Variance	.0472797
95%	.51104	1.32316	Skewness	4.298318
99%	1.180485	1.8706	Kurtosis	27.71191

-> meth= MaxLIP2
residue

Percentiles		Smallest		
1%	.00931	.0058		
5%	.017805	.00831		
10%	.025725	.01031	Obs	200
25%	.045515	.01164	Sum of Wgt.	200

50%	.083875		Mean	.1471731
		Largest	Std. Dev.	.2016268
75%	.16487	.80878		
90%	.32218	.96647	Variance	.0406534
95%	.48202	1.23865	Skewness	4.256404
99%	1.10256	1.755	Kurtosis	27.72849

-> meth= MaxLIP3
residue

	Percentiles	Smallest		
1%	.01082	.00693		
5%	.02087	.0098		
10%	.029765	.01184	Obs	200
25%	.05919	.01343	Sum of Wgt.	200

50%	.118755		Mean	.1468229
		Largest	Std. Dev.	.1105692
75%	.210635	.42206		
90%	.30757	.44664	Variance	.0122255
95%	.3528	.49029	Skewness	1.10568
99%	.468465	.62281	Kurtosis	4.193542

-> meth= MaxLIP4
residue

	Percentiles	Smallest		
1%	.023355	.01886		
5%	.037045	.02189		
10%	.048455	.02482	Obs	200
25%	.07965	.02728	Sum of Wgt.	200

50%	.11889		Mean	.1434092
		Largest	Std. Dev.	.120316
75%	.157125	.55377		
90%	.249195	.62339	Variance	.0144759
95%	.35951	.71483	Skewness	3.557626
99%	.66911	1.03541	Kurtosis	21.2153

-> meth= MaxLIP5
residue

	Percentiles	Smallest
1%	.030295	.02294

5%	.04658	.02847		
10%	.060685	.03212	Obs	200
25%	.08897	.03452	Sum of Wgt.	200
50%	.116055		Mean	.1451988
		Largest	Std. Dev.	.087273
75%	.178155	.38303		
90%	.287105	.39794	Variance	.0076166
95%	.33202	.41706	Skewness	1.300914
99%	.4075	.46759	Kurtosis	4.177967

. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
field trial sing:	0.0600	0.487	
Novigen:	-0.0400	0.726	
Combined K-S:	0.0600	0.864	0.837

. with logres meth if meth==1|meth==4: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
field trial sing:	0.1600	0.006	
MaxLIP1:	-0.0500	0.607	
Combined K-S:	0.1600	0.012	0.009

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
field trial sing:	0.2048	0.000	
Allender:	-0.0347	0.787	
Combined K-S:	0.2048	0.000	0.000

. qqplot logres1 logres1, saving(picnov101) xlab(-8(2) 0) ylab(-8(2) 0)
file picnov101.gph already exists
r(602);


```
. qqplot logres1 logres1, saving(picnov11) xlab(-8(2) 0) ylab(-8(2) 0)
. qqplot logres1 logres1, saving(picnov12) xlab(-8(2) 0) ylab(-8(2) 0)
. qqplot logres1 logres2, saving(picnov13) xlab(-8(2) 0) ylab(-8(2) 0)
. qqplot logres1 logres3, saving(picnov14) xlab(-8(2) 0) ylab(-8(2) 0)
. qqplot logres1 logres4, saving(picnov15) xlab(-8(2) 0) ylab(-8(2) 0)
. graph using picnov11 picnov13 picnov14 picnov15, margin(15) saving(picnov10)
.
```

Q-Q PLOT: novartis_diazinon_peaches

STATA OUTPUT/LOGFILE: PDP Single-serving Special Study

label list

method:

- 1 original
- 2 Allender
- 3 MaxLIP4
- 4 Novigen

. sort meth

. by meth: summarize residue, detail

-> meth=original

residue

```
-----
```

Percentiles		Smallest		
1%	.001816	.0011817		
5%	.0034675	.0015394		
10%	.0050123	.001816	Obs	229
25%	.0096883	.0020533	Sum of Wgt.	229
50%			Mean	.0346431
		Largest	Std. Dev.	.0385296
75%	.044	.15		
90%	.099	.16	Variance	.0014845
95%	.12	.17	Skewness	2.043471
99%	.16	.24	Kurtosis	7.641382

-> meth=Allender

residue

```
-----
```

Percentiles		Smallest		
1%	.016251	.014212		
5%	.019556	.014937		
10%	.021986	.016251	Obs	231
25%	.026654	.016676	Sum of Wgt.	231
50%			Mean	.035152
		Largest	Std. Dev.	.0119166
75%	.042244	.067989		
90%	.050417	.06859	Variance	.000142
95%	.05794	.08377	Skewness	1.096623
99%	.06859	.083983	Kurtosis	4.739464

-> meth= MaxLIP4

residue

```
-----  
Percentiles  Smallest  
1% .0000152 .0000119  
5% .0000206 .0000143  
10% .000025 .0000152  Obs      231  
25% .0000373 .0000162  Sum of Wgt. 231  
  
50% .00815      Mean      .0305996  
      Largest  Std. Dev. .0726232  
75% .0298      .277  
90% .0735      .331  Variance .0052741  
95% .131      .461  Skewness 5.824271  
99% .331      .74   Kurtosis 47.94944
```

-> meth= Novigen

residue

```
-----  
Percentiles  Smallest  
1% 6.43e-06 9.38e-07  
5% .0000328 2.80e-06  
10% .0001093 6.43e-06  Obs      231  
25% .0006945 7.99e-06  Sum of Wgt. 231  
  
50% .0053245      Mean      .0348873  
      Largest  Std. Dev. .0673469  
75% .0339306 .2970301  
90% .0963392 .3259095  Variance .0045356  
95% .1882241 .3350351  Skewness 3.008914  
99% .3259095 .4361157  Kurtosis 13.11701
```

. with logres meth if meth==1|meth==2: ksmirnov logres by(meth)
time-series operators not allowed
r(101);

. with logres meth if meth==1|meth==2: ksmirnov logres, by(meth)

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.4808	0.000	

```
Allender:      -0.1312  0.019
Combined K-S:   0.4808  0.000  0.000
```

```
. with logres meth if meth==1|meth==3: ksmirnov logres, by(meth)
```

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0303	0.810	
MaxLIP4:	-0.4242	0.000	
Combined K-S:	0.4242	0.000	0.000

```
. with logres meth if meth==1|meth==4: ksmirnov logres, by(meth)
```

Two-sample Kolmogorov-Smirnov test for equality of distribution functions:

Smaller group	D	P-value	Corrected
original:	0.0562	0.484	
Novigen:	-0.3977	0.000	
Combined K-S:	0.3977	0.000	0.000

```
. qqplot logres1 logres1, saving(picpdp11) xlab(-14(2) 0) ylab(-14(2) 0)
file picpdp11.gph already exists
r(602);
```

```
. qqplot logres1 logres1, saving(picpdp1) xlab(-14(2) 0) ylab(-14(2) 0)
```

```
. qqplot logres1 logres2, saving(picpdp2) xlab(-14(2) 0) ylab(-14(2) 0)
```

```
. qqplot logres1 logres3, saving(picpdp3) xlab(-14(2) 0) ylab(-14(2) 0)
```

```
. qqplot logres1 logres4, saving(picpdp4) xlab(-14(2) 0) ylab(-14(2) 0)
```

```
. graph using picpdp1 picpdp2 picpdp3 picpdp4, margin(15) saving(pdppic0)
```

```
.
```

Q-Q PLOT: PDP Single-Serving Special Study

