

Abnormal Standard Deviations on 10.1080/10717544.2023.2288801

We found some abnormal data on article [1], including: (1) Standard deviations on Table 4 have last digits of either 0 or 5, which is unusual, and (2) Standard deviations on Table 8 have some unusual repeated numbers, like 1.7, 0.12, and others.

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(1) Standard deviations on Table 4 have last digits of either 0 or 5, which is unusual.

Table 4. An overview of the CQAs observed for formulations of BD created by the CCD design.

Average $\pm$ SD (n=3)					
Formulation	T_{med} (s)	D_{90} (nm)	R_{90} (nm)	T (%)	Polydispersity Index
BD1	75.67 $\pm$ 2.10	186.01 $\pm$ 3.10	82.17 $\pm$ 1.90	95.67 $\pm$ 0.90	0.454
BD2	87.71 $\pm$ 2.40	195.23 $\pm$ 3.25	83.14 $\pm$ 1.95	93.10 $\pm$ 0.70	0.258
BD3	68.58 $\pm$ 2.25	183.14 $\pm$ 3.00	86.11 $\pm$ 2.10	98.25 $\pm$ 0.50	0.264
BD4	82.12 $\pm$ 2.20	191.32 $\pm$ 3.30	87.12 $\pm$ 1.95	88.00 $\pm$ 0.40	0.425
BD5	69.31 $\pm$ 2.05	184.23 $\pm$ 3.20	84.12 $\pm$ 1.90	98.05 $\pm$ 0.10	0.331
BD6	83.11 $\pm$ 2.80	192.23 $\pm$ 3.10	85.65 $\pm$ 2.15	85.65 $\pm$ 0.90	0.256
BD7	67.37 $\pm$ 2.25	184.03 $\pm$ 2.90	82.59 $\pm$ 1.95	99.10 $\pm$ 0.30	0.260
BD8	79.31 $\pm$ 2.15	189.10 $\pm$ 2.80	86.45 $\pm$ 2.10	90.00 $\pm$ 0.25	0.265
BD9	67.36 $\pm$ 1.90	182.43 $\pm$ 2.75	67.25 $\pm$ 1.80	91.10 $\pm$ 0.50	0.454
BD10	104.21 $\pm$ 3.10	199.75 $\pm$ 2.90	69.12 $\pm$ 1.85	90.10 $\pm$ 0.60	0.464
BD11	75.17 $\pm$ 2.15	170.12 $\pm$ 2.70	81.21 $\pm$ 1.75	95.25 $\pm$ 0.20	0.421
BD12	70.31 $\pm$ 2.80	199.12 $\pm$ 2.60	78.74 $\pm$ 1.65	87.20 $\pm$ 0.30	0.325
BD13	71.14 $\pm$ 2.30	164.50 $\pm$ 2.50	90.21 $\pm$ 1.65	97.67 $\pm$ 0.90	0.299
BD14	65.21 $\pm$ 1.95	156.20 $\pm$ 2.40	92.65 $\pm$ 1.70	99.80 $\pm$ 0.70	0.250
BD15	69.12 $\pm$ 2.05	161.21 $\pm$ 2.50	91.32 $\pm$ 1.80	98.25 $\pm$ 0.50	0.415

(2) Standard deviations on Table 8 have some unusual repeated numbers, like 1.7, 0.12, and others.

Table 8. Evaluation of SNEDDS BD1 to BD15 formulation of design.

Average $\pm$ SD (n=3)					
Formulation	Liquification time ^a (s)	Viscosity ^a (centi poise)	Zeta potential ^a (mV)	Cloud Point ^a (°C)	Refractive index ^a
BD1	70.50 $\pm$ 2.50	140 $\pm$ 1.63	-15.23 $\pm$ 0.84	73.2 $\pm$ 1.9	1.762 $\pm$ 0.12
BD2	82.25 $\pm$ 2.80	158 $\pm$ 2.55	-17.51 $\pm$ 0.60	73.9 $\pm$ 1.7	1.789 $\pm$ 0.18
BD3	65.10 $\pm$ 2.30	132 $\pm$ 2.55	-20.52 $\pm$ 0.84	69.7 $\pm$ 1.1	1.745 $\pm$ 0.14
BD4	79.10 $\pm$ 2.85	152 $\pm$ 1.40	-19.56 $\pm$ 0.85	74.4 $\pm$ 1.5	1.752 $\pm$ 0.13
BD5	66.15 $\pm$ 1.80	137 $\pm$ 2.10	-21.21 $\pm$ 0.30	75.6 $\pm$ 1.7	1.742 $\pm$ 0.12
BD6	80.20 $\pm$ 2.80	154 $\pm$ 2.40	-19.32 $\pm$ 0.64	72.8 $\pm$ 2.2	1.761 $\pm$ 0.12
BD7	65.10 $\pm$ 2.10	125 $\pm$ 1.30	-18.95 $\pm$ 0.56	85.6 $\pm$ 2.6	1.757 $\pm$ 0.17
BD8	75.20 $\pm$ 2.40	148 $\pm$ 2.40	-21.45 $\pm$ 0.30	83.7 $\pm$ 2.8	1.780 $\pm$ 0.18
BD9	64.75 $\pm$ 1.87	110 $\pm$ 1.90	-18.63 $\pm$ 0.30	75.8 $\pm$ 1.7	1.739 $\pm$ 0.14
BD10	95.20 $\pm$ 2.70	175 $\pm$ 2.20	-19.12 $\pm$ 0.20	79.6 $\pm$ 1.7	1.773 $\pm$ 0.17
BD11	72.20 $\pm$ 2.60	141 $\pm$ 1.60	-16.12 $\pm$ 0.24	64.2 $\pm$ 1.5	1.798 $\pm$ 0.20
BD12	67.50 $\pm$ 1.90	118 $\pm$ 1.92	-21.23 $\pm$ 0.18	71.5 $\pm$ 2.2	1.765 $\pm$ 0.19
BD13	69.25 $\pm$ 1.95	145 $\pm$ 2.15	-15.21 $\pm$ 0.20	68.9 $\pm$ 1.7	1.761 $\pm$ 0.12
BD14	62.20 $\pm$ 1.70	125 $\pm$ 1.50	-17.36 $\pm$ 0.18	69.9 $\pm$ 1.5	1.752 $\pm$ 0.14
BD15	64.50 $\pm$ 1.65	136 $\pm$ 1.75	-16.50 $\pm$ 0.24	70.5 $\pm$ 1.9	1.765 $\pm$ 0.18

^aValues are of mean $\pm$ SD (n=3), SD: Standard deviation

[1] 10.1080/10717544.2023.2288801
