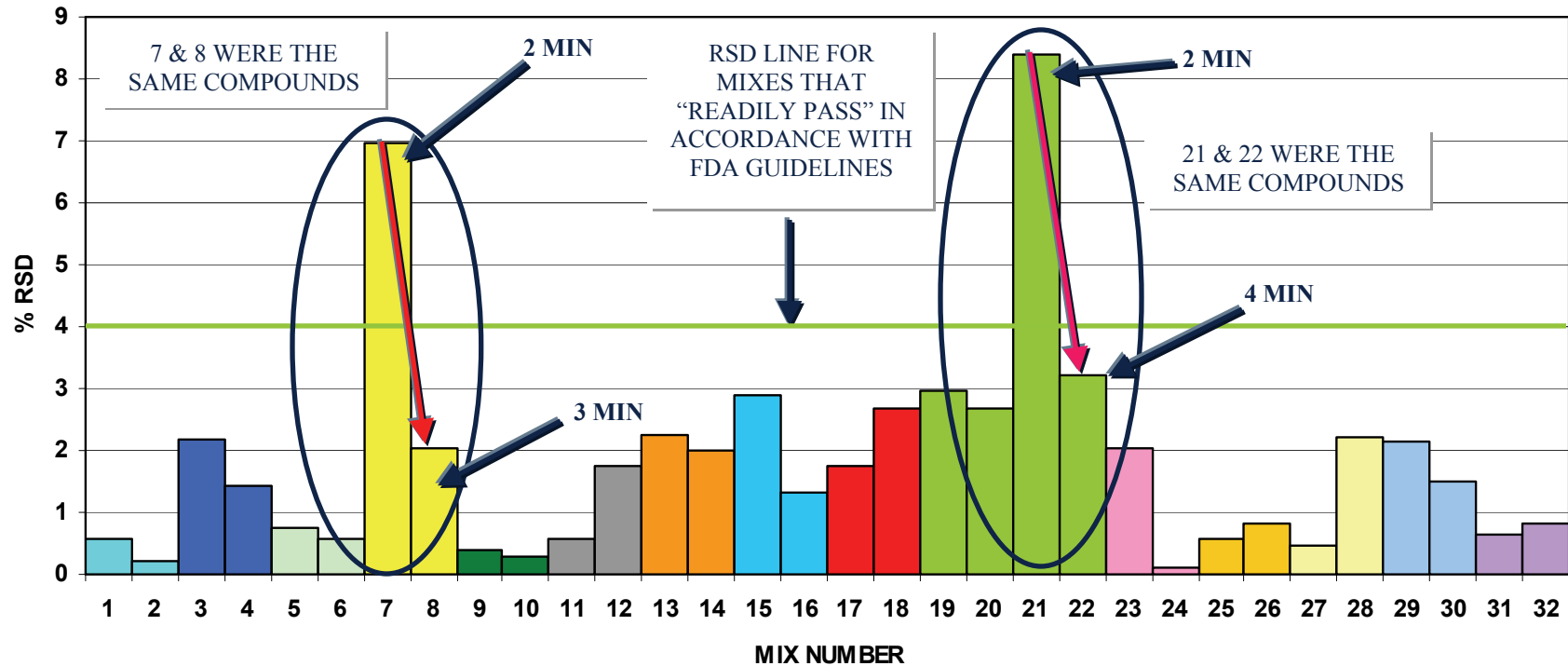


Case Study: RAM Mixing of Compounded Pharmaceuticals



Summary:

- All mixes were well under the FDA required "readily mixed" RSD value line of 4% -- RSD results typically less than 3%
- Thorough mixing of various excipients and actives resulted from short mixing times in the RAM mixer – typically 2 to 4 minutes
- RAM mixing out performs all conventional pharmaceutical mixing processes
- RAM has demonstrated substantial value-add for mixing pharmaceutical powder products

Note: Values in the graph are color coded to correspond with the materials on the reverse side.

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Case Study (Continued): RAM Mixing of Compounded Pharmaceuticals

Sample	Active Ingredient	Excipient	Acceleration g	Time min	% RSD
1	Progesterone	Lactose Monohydrate/Methocel E4M	71	4	0.56
2	Progesterone	Lactose Monohydrate/Methocel E4M	35	2	0.21
3	Domperidone	Avicel	60	4	2.19
4	Domperidone	Avicel	70	2	1.43
5	Methylprednisolone	Avicel	60	4	0.73
6	Methylprednisolone	Avicel	65	2	0.57
7	Testosterone	Lactose Monohydrate/Methocel E4M	35	2	6.97
8	Testosterone	Lactose Monohydrate/Methocel E4M	70	3	2.02
9	Budesonide	Avicel/Methocel E4M	70	4	0.38
10	Budesonide	Avicel/Methocel E4M	70	2	0.29
11	Ergotamine Tartrate	Lactose Monohydrate	100	6	0.53
12	Ergotamine Tartrate	Lactose Monohydrate	60	4	3.49
13	Estriol/Estradiol (50%/50%)	Lactose Monohydrate/Methocel E4M	35	2	2.45
14	Estriol/Estradiol (50%/50%)	Lactose Monohydrate/Methocel E4M	35	4	2.98
15	Levothyroxine Sodium	Avicel/Methocel E4M	35	2	2.88
16	Levothyroxine Sodium	Avicel/Methocel E4M	35	2	1.32
17	Levothyroxine Sodium	Avicel/Methocel E4M	35	2	1.76
18	Levothyroxine Sodium	Avicel/Methocel E4M	35	4	2.67
19	Liothyronine (T3)	Avicel/Methocel E4M	35	4	2.95
20	Liothyronine (T3)	Avicel/Methocel E4M	70	2	2.67
21	Liothyronine (T3)	Avicel/Methocel E4M	35	2	8.38
22	Liothyronine (T3)	Avicel/Methocel E4M	35	4	3.23
23	Domperidone 10mg Capsule (lactose):	Lactose Monohydrate	35	4	2.02
24	Domperidone 10mg Capsule (lactose):	Lactose Monohydrate	35	4	0.09
25	Domperidone 10mg Capsule (corn starch):	Corn Starch	70	6	0.57
26	Domperidone 10mg Capsule (corn starch):	Corn Starch	69	4	0.80
27	Domperidone 10mg Capsule (acidophilus):	Acidophilus	35	2	0.46
28	Domperidone 10mg Capsule (acidophilus):	Acidophilus	35	2	2.21
29	Domperidone 10mg Capsule (Loxasperse):	Loxasperse	70	2	2.14
30	Domperidone 10mg Capsule (Loxasperse):	Loxasperse	70	2	1.49
31	Domperidone 10mg Capsule (Bimuno):	Bimuno	100	6	0.64
32	Domperidone 10mg Capsule (Bimuno):	Bimuno	60	4	0.80

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