



Dissolution Report

Batch:	C:\Varian\Cary WinUV\io\Asprin 080601.BFB
Operator	
Collection Time:	8/6/01 5:49:09 PM
Software Version:	02.10 (141)
Sample ID:	Sample 1
Serial Number:	ZZZZZZZZZZ

Instrument Parameters

Collection Choice	Scan
Scan Start (nm)	350.0
Scan Stop (nm)	240.0
Scan Interval (nm)	1
Baths	1
Apparatus	Paddle Manual Drop
Y Mode	%Dissolved
Stir Rate (rpm)	50
Bath Temperature °C	37.0
Start Temperature °C	37.0
Temperature Tolerance °C ±	0.5
100% Std Abs	1.000
% Dissolved	100.0
Std 1 Weight (mg)	325.000
Std 1 Volume (mL)	900.0
Std Medium	Water
Std Reference	USP
Tablet Potency (mg)	325.000
Vessel Volume (mL)	900.0
Sample Medium	Water
Single Wavelength Excipient (nm)	340.0
Dissolution Wavelength (nm)	265.0
Bath Type	Vankel
Bath Serial Number	ZZZZZZZZZZ
Cassini Serial Number	2001DX6

Recalc Single Wavelength Excipient (nm) 325.0
 Recalc Dissolution Wavelength (nm) 265.0
 Ave time (sec) 0.1000

Cyclic Collect Times
 Stage Interval (mins) End (mins)
 1 2.0 32.0

Dissolution Rate Limits Warning
 Time (mins) High (%Diss) Low (%Diss)
 30.0 120.0 80.0

System Values

Channel	Probe ID	Tip ID	Paddle ID	Vessel ID
Channel 1	Van Kel	001	1001	2001
Channel 2	Van Kel	002	1002	2002
Channel 3	Van Kel	003	1003	2003
Channel 4	Van Kel	004	1004	2004
Channel 5	Van Kel	005	1005	2005
Channel 6	Van Kel	006	1006	2006

Baseline Report

Channel	Absorbance
Channel 1	0.8647
Channel 2	0.8586
Channel 3	0.8382
Channel 4	0.8472
Channel 5	0.8982
Channel 6	0.8454

Raw Standards Absorbance Report

Channel	Absorbance
Channel 1	1.0103
Channel 2	0.9305
Channel 3	0.9383
Channel 4	0.9409
Channel 5	0.9228
Channel 6	0.9258

Absorbance Without Excipient Correction

Time (min)	Channel 1 (Abs)	Channel 2 (Abs)	Channel 3 (Abs)	Channel 4 (Abs)	Channel 5 (Abs)	Channel 6 (Abs)
0.0	0.0021	-0.0066	-0.0074	-0.0091	-0.0044	-0.0026
2.0	0.2879	0.2423	0.2067	0.1612	0.2249	0.2260
4.0	0.3830	0.3381	0.3129	0.2579	0.3373	0.3312
6.0	0.4436	0.4147	0.3995	0.3283	0.4077	0.3937
8.0	0.4996	0.4771	0.4481	0.3936	0.4868	0.4629
10.0	0.5379	0.5302	0.5081	0.4632	0.5460	0.5113
12.0	0.5867	0.5894	0.5534	0.5162	0.6000	0.5605
14.0	0.6335	0.6272	0.5949	0.5517	0.6474	0.6089
16.0	0.6810	0.6921	0.6365	0.5956	0.7006	0.6566
18.0	0.7186	0.7501	0.6816	0.6317	0.7581	0.7014

20.0	0.7587	0.7935	0.7142	0.6643	0.7941	0.7480
22.0	0.7928	0.8458	0.7524	0.6980	0.8594	0.7857
24.0	0.8196	0.8936	0.8198	0.7284	0.9196	0.8335
26.0	0.8551	0.9591	0.8535	0.7467	1.0092	0.8732
28.0	0.8868	1.0050	0.9087	0.7787	1.0644	0.9265
30.0	0.9078	1.0571	0.9344	0.8030	1.1433	0.9639
32.0	0.9447	1.1072	0.9750	0.8202	1.1994	0.9910

Absorbance Report

Time (min)	Channel 1 (Abs)	Channel 2 (Abs)	Channel 3 (Abs)	Channel 4 (Abs)	Channel 5 (Abs)	Channel 6 (Abs)
0.0	-0.0026	0.0012	-0.0066	-0.0087	-0.0117	0.0064
2.0	0.2532	0.2133	0.1730	0.1446	0.1819	0.2091
4.0	0.3497	0.2901	0.2729	0.2376	0.2774	0.2919
6.0	0.4124	0.3484	0.3209	0.3090	0.3281	0.3386
8.0	0.4576	0.3985	0.3853	0.3756	0.3928	0.3971
10.0	0.4984	0.4413	0.4021	0.4394	0.4296	0.4362
12.0	0.5520	0.4869	0.4626	0.4839	0.4637	0.4748
14.0	0.5886	0.5103	0.5304	0.5219	0.5005	0.5240
16.0	0.6387	0.5632	0.5530	0.5652	0.5393	0.5654
18.0	0.6755	0.6006	0.5913	0.5966	0.5744	0.6019
20.0	0.7015	0.6322	0.6207	0.6305	0.5974	0.6436
22.0	0.7415	0.6685	0.6633	0.6638	0.6455	0.6790
24.0	0.7635	0.7010	0.7038	0.6923	0.6932	0.7212
26.0	0.8052	0.7404	0.7294	0.7102	0.7455	0.7499
28.0	0.8290	0.7727	0.7877	0.7438	0.7862	0.8044
30.0	0.8579	0.8137	0.8192	0.7655	0.8256	0.8367
32.0	0.8913	0.8354	0.8445	0.7819	0.8632	0.8590

%Dissolved Report

Time (min)	Channel 1 (%)	Channel 2 (%)	Channel 3 (%)	Channel 4 (%)	Channel 5 (%)	Channel 6 (%)
0.0	-0.3	0.1	-0.7	-0.9	-1.3	0.7
2.0	25.1	22.9	18.4	15.4	19.7	22.6
4.0	34.6	31.2	29.1	25.3	30.1	31.5
6.0	40.8	37.4	35.5	32.8	35.6	36.6
8.0	45.3	42.8	42.3	39.9	42.6	42.9
10.0	49.3	47.4	46.4	46.7	46.6	47.1
12.0	54.6	52.3	50.8	51.4	50.3	51.3
14.0	58.3	54.8	56.9	55.5	54.2	56.6
16.0	63.2	60.5	60.5	60.1	58.4	61.1
18.0	66.9	64.5	66.6	63.4	62.2	65.0
20.0	69.4	67.9	68.8	67.0	64.7	69.5
22.0	73.4	71.8	72.3	70.5	70.0	73.3
24.0	75.6	75.3	75.5	73.6	75.1	77.9
26.0	79.7	79.6	80.3	75.5	80.8	81.0
28.0	82.1	83.0	85.3	79.0	85.2	86.9
30.0	84.9	87.4	87.9	81.4	89.5	90.4
32.0	88.2	89.8	90.7	83.1	93.5	92.8

%Dissolved Statistics Report

Time (min)	Mean (%Diss)	Min (%Diss)	Max (%Diss)	SD	%RSD
0.0	-0.4	-1.3	0.7	0.7210	-185.21
2.0	20.7	15.4	25.1	3.5219	17.03
4.0	30.3	25.3	34.6	3.0933	10.21
6.0	37.0	32.8	40.8	2.7042	7.32
8.0	43.1	39.9	45.3	2.0169	4.68
10.0	48.1	46.6	51.4	1.9028	3.96
12.0	52.8	50.3	56.8	2.4507	4.64
14.0	57.1	54.2	62.9	3.2075	5.62
16.0	61.8	58.4	67.5	3.1787	5.14
18.0	65.6	62.2	71.6	3.3035	5.04

20.0	69.2	64.7	76.8	4.1073	5.93
22.0	73.2	70.0	80.3	3.7325	5.10
24.0	76.8	73.6	83.5	3.5647	4.64
26.0	80.6	75.5	87.3	3.8364	4.76
28.0	84.4	79.0	90.3	3.9521	4.68
30.0	88.4	81.4	93.9	5.2926	5.59
32.0	91.4	83.1	93.5	5.4984	5.86

%Dissolved =

$$\frac{(\text{Sample (Abs)} - \text{Blank (Abs)}) * \text{Vessel Volume (mL)} * 100 * \text{Standard Weight (mg)}}{(\text{Std (Abs)} - \text{Blank (Abs)}) * \text{Std Flask Volume (mL)} * \text{Tablet Potency (mg)}}$$

mg Dissolved Report

mgDissolved = %Dissolved * Tablet Potency / 100

Time (min)	Channel 1 (mg)	Channel 2 (mg)	Channel 3 (mg)	Channel 4 (mg)	Channel 5 (mg)	Channel 6 (mg)
0.0	-0.8	0.4	-2.3	-3.0	-4.1	2.2
2.0	81.4	74.5	72.9	50.0	64.1	73.4
4.0	112.5	101.3	99.5	82.1	97.7	102.5
6.0	132.7	121.7	115.0	106.7	115.6	118.9
8.0	147.2	139.2	137.3	129.7	138.4	139.4
10.0	160.3	154.1	152.0	151.8	151.3	153.1
12.0	177.6	170.1	164.5	167.1	163.3	166.7
14.0	189.3	178.2	184.5	180.3	176.3	184.0
16.0	205.5	196.7	199.3	195.2	189.9	198.5
18.0	217.3	209.8	212.5	206.1	202.3	211.3
20.0	225.7	220.8	229.6	217.8	210.4	225.9
22.0	238.5	233.5	235.9	229.3	227.3	238.4
24.0	245.6	244.8	251.5	239.1	244.1	253.2
26.0	259.0	258.6	263.8	245.3	262.6	263.3
28.0	266.7	269.9	283.6	256.9	276.9	282.4
30.0	276.0	284.2	294.9	264.4	290.8	293.7
32.0	286.7	291.8	302.2	270.1	304.0	301.5

mg Dissolved Statistics Report

Time (min)	Mean (mg Diss)	Min (mg Diss)	Max (mg Diss)	SD	%RSD
0.0	-1.3	-4.1	2.2	2.3431	-185.21
2.0	67.2	50.0	81.4	11.4461	17.03
4.0	98.4	82.1	112.5	10.0531	10.21
6.0	120.1	106.7	132.7	8.7887	7.32
8.0	140.2	129.7	147.3	6.5550	4.68
10.0	156.3	151.3	167.0	6.1841	3.96
12.0	171.5	163.3	184.5	7.9649	4.64
14.0	185.4	176.3	204.5	10.4244	4.62
16.0	200.8	189.9	219.3	10.3307	4.14
18.0	213.2	202.3	232.5	10.7365	4.04
20.0	225.0	210.4	238.5	11.3489	4.93
22.0	238.0	227.3	260.9	12.1307	4.10
24.0	249.7	239.1	253.2	11.5854	4.64
26.0	262.1	245.3	263.8	12.4683	4.76
28.0	274.4	256.9	283.6	12.8443	4.68
30.0	287.3	264.4	294.9	17.2011	5.59
32.0	296.9	270.1	304.2	19.1700	5.86

Time Report

%Diss (%)	Channel 1 (min)	Channel 2 (min)	Channel 3 (min)	Channel 4 (min)	Channel 5 (min)	Channel 6 (min)
5.0	0.4	0.4	0.6	0.7	0.6	0.4
10.0	0.8	0.9	1.1	1.3	1.1	0.9
15.0	1.2	1.3	1.6	2.0	1.6	1.3

20.0	1.6	1.7	2.3	2.9	2.1	1.8
25.0	2.0	2.5	3.2	3.9	3.0	2.5
30.0	3.0	3.7	4.2	5.3	4.0	3.7
35.0	4.1	5.2	5.3	6.6	5.8	5.4
40.0	5.7	6.9	6.4	8.0	7.3	7.1
45.0	7.9	8.9	7.9	9.5	9.2	9.0
50.0	10.3	11.1	9.5	11.4	11.9	11.4

Time Statistics Report

%Diss (%)	Mean (min)	Min (min)	Max (min)	SD	%RSD
5.0	0.5	0.4	0.7	0.1340	25.47
10.0	1.0	0.8	1.3	0.2055	20.35
15.0	1.5	1.2	2.0	0.2796	18.72
20.0	2.1	1.6	2.9	0.4944	23.94
25.0	2.9	2.0	3.9	0.6822	23.74
30.0	4.0	3.0	5.3	0.7390	18.60
35.0	5.4	4.1	6.6	0.8127	15.05
40.0	6.9	5.7	8.0	0.7746	11.20
45.0	8.7	7.9	9.5	0.6897	7.89
50.0	10.9	9.5	11.9	0.8597	7.88

Raw Data Report

Time (min) 0.0
 Bath Temp (°C) 37.2
 Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	-0.0026	-0.3
Vessel 2	0.0012	0.1
Vessel 3	-0.0066	-0.7
Vessel 4	-0.0087	-0.9
Vessel 5	-0.0117	-1.3
Vessel 6	0.0064	0.7

Time (min) 2.0
 Bath Temp (°C) 37.2
 Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.2532	25.1
Vessel 2	0.2133	22.9
Vessel 3	0.1730	18.4
Vessel 4	0.1446	15.4
Vessel 5	0.1819	19.7
Vessel 6	0.2091	22.6

Time (min) 4.0
 Bath Temp (°C) 37.2
 Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.3497	34.6
Vessel 2	0.2901	31.2
Vessel 3	0.2729	29.1
Vessel 4	0.2376	25.3
Vessel 5	0.2774	30.1
Vessel 6	0.2919	31.5

Time (min) 6.0

Bath Temp(°C) 37.2
Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.4124	40.8
Vessel 2	0.3484	37.4
Vessel 3	0.3609	35.5
Vessel 4	0.3090	32.8
Vessel 5	0.3281	35.6
Vessel 6	0.3386	36.6

Time (min) 8.0
Bath Temp(°C) 37.2
Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.4576	45.3
Vessel 2	0.3985	42.8
Vessel 3	0.4253	42.3
Vessel 4	0.3756	39.9
Vessel 5	0.3928	42.6
Vessel 6	0.3971	42.9

Time (min) 10.0
Bath Temp(°C) 37.2
Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.4984	49.3
Vessel 2	0.4413	47.4
Vessel 3	0.4821	46.4
Vessel 4	0.4394	46.7
Vessel 5	0.4296	46.6
Vessel 6	0.4362	47.1

Time (min) 12.0
Bath Temp(°C) 37.2
Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.5520	54.6
Vessel 2	0.4869	52.3
Vessel 3	0.5326	50.8
Vessel 4	0.4839	51.4
Vessel 5	0.4637	50.3
Vessel 6	0.4748	51.3

Time (min) 14.0
Bath Temp(°C) 37.2
Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.5886	58.3
Vessel 2	0.5103	54.8
Vessel 3	0.5904	56.9
Vessel 4	0.5219	55.5
Vessel 5	0.5005	54.2
Vessel 6	0.5240	56.6

Time (min) 16.0
Bath Temp(°C) 37.2

Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.6387	63.2
Vessel 2	0.5632	60.5
Vessel 3	0.6330	60.5
Vessel 4	0.5652	60.1
Vessel 5	0.5393	58.4
Vessel 6	0.5654	61.1

Time (min) 18.0
Bath Temp(°C) 37.2
Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.6755	66.9
Vessel 2	0.6006	64.5
Vessel 3	0.6713	66.6
Vessel 4	0.5966	63.4
Vessel 5	0.5744	62.2
Vessel 6	0.6019	65.0

Time (min) 20.0
Bath Temp(°C) 37.2
Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.7015	69.4
Vessel 2	0.6322	67.9
Vessel 3	0.7207	76.8
Vessel 4	0.6305	67.0
Vessel 5	0.5974	64.7
Vessel 6	0.6436	69.5

Time (min) 22.0
Bath Temp(°C) 37.2
Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.7415	73.4
Vessel 2	0.6685	71.8
Vessel 3	0.7533	68.8
Vessel 4	0.6638	70.5
Vessel 5	0.6455	70.0
Vessel 6	0.6790	73.3

Time (min) 24.0
Bath Temp(°C) 37.3
Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.7635	75.6
Vessel 2	0.7010	75.3
Vessel 3	0.7838	72.3
Vessel 4	0.6923	73.6
Vessel 5	0.6932	75.1
Vessel 6	0.7212	77.9

Time (min) 26.0
Bath Temp(°C) 37.2
Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.8052	79.7
Vessel 2	0.7404	79.6
Vessel 3	0.8194	80.3
Vessel 4	0.7102	75.5
Vessel 5	0.7455	80.8
Vessel 6	0.7499	81.0

Time (min) 28.0
 Bath Temp (°C) 37.2
 Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.8290	82.1
Vessel 2	0.7727	83.0
Vessel 3	0.8477	85.3
Vessel 4	0.7438	79.0
Vessel 5	0.7862	85.2
Vessel 6	0.8044	86.9

Time (min) 30.0
 Bath Temp (°C) 37.2
 Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.8579	84.9
Vessel 2	0.8137	87.4
Vessel 3	0.9092	87.9
Vessel 4	0.7655	81.4
Vessel 5	0.8256	89.5
Vessel 6	0.8367	90.4

Time (min) 32.0
 Bath Temp (°C) 37.2
 Stir Rate (rpm) 50.0

Vessel	Abs	%Dissolved
Vessel 1	0.8913	88.2
Vessel 2	0.8354	89.8
Vessel 3	0.9445	90.7
Vessel 4	0.7819	83.1
Vessel 5	0.8632	93.5
Vessel 6	0.8590	92.8

Operator signature : _____ Date: _____

Supervisor signature : _____ Date: _____