



Batch Number : FT-SYN-03-17-004
Formula Name : SYNTHESIS
Batch Started By : OWS1 TEJM
Start Date/Time : 02-Mar-2017 05:48:09
Recipe Name : PRC_SYNTHESIS
Recipe Version : 3
Recipe Version Date/Time : 31-Jan-2017 17:55:19
End Date/Time : 05-Mar-2017 10:22:22

Product Name : TECH 5-ASA

BATCH REPORT

UNITS

- Section 1 ANILINE HOLDING TANK
TA92150
- Section 2 ANILINE MEASURING VESSEL FOR SYNTHESIS
FT92002
- Section 3 PUW MEASURING VESSEL FOR SYNTHESIS
FT92003
- Section 4 HCl MEASURING VESSEL FOR SYNTHESIS
FT92101
- Section 5 NaNO₂ MEASURING VESSEL FOR SYNTHESIS
FT92102
- Section 6 DIAZOTATION REACTOR
RG92000
- Section 7 NaOH HOLDING TANK
FT92402
- Section 8 COUPLING REACTOR
RS92050
- Section 9 REDUCTION REACTOR
RS92400
- Section 10 PRECIPITATION REACTOR
RG92173
- Section 11 CENTRIFUGATION
CE92190
- Section 12 CENTRIFUGE-KG
CE92190KG

	Date	Signature
Printed By :	05-Mar-2017	
Reviewed By (CTS Manufacturing) :		
QA Approved :		

SECTION 1 : ANILINE HOLDING TANK**UNIT : TA92150****Operation : ANILINE FILLING****Operation Steps : FILLING**

Date/Time	Description	Logged Data / Ack
02-Mar-2017 06:23:47	ANILINE BATCH NO	161209/1685
02-Mar-2017 06:23:47	ANILINE TOTAL VOLUME : 92-FI-901106	363.8 L
02-Mar-2017 06:25:12	TA92150 TANK LEVEL : 92-LI-901102	97.5 %

SECTION 2 : ANILINE MEASURING VESSEL FOR SYNTHESIS

UNIT : FT92002

Operation : FT92002 FILLING AND EMPTYING

Operation Steps : FT92002 START

Date/Time	Description	Logged Data / Ack
02-Mar-2017 06:04:45	FT92002 START	STARTED

Operation Steps : PORTION 1

Date/Time	Description	Logged Data / Ack
02-Mar-2017 06:30:34	ANILINE FILL DURATION	00:4:0
02-Mar-2017 06:36:13	ANILINE EMPTY DURATION	00:4:12

Operation Steps : PORTION 2

Date/Time	Description	Logged Data / Ack
02-Mar-2017 06:43:36	ANILINE FILL DURATION	00:4:2
02-Mar-2017 11:38:46	ANILINE EMPTY DURATION	00:4:10

Operation Steps : PORTION 3

Date/Time	Description	Logged Data / Ack
02-Mar-2017 11:46:07	ANILINE FILL DURATION	00:4:2
02-Mar-2017 12:43:06	ANILINE EMPTY DURATION	00:4:10

Operation Steps : PORTION 4

Date/Time	Description	Logged Data / Ack
02-Mar-2017 12:50:31	ANILINE FILL DURATION	00:4:0
02-Mar-2017 13:51:00	ANILINE EMPTY DURATION	00:4:10

Operation Steps : PORTION 5

Date/Time	Description	Logged Data / Ack
02-Mar-2017 13:58:33	ANILINE FILL DURATION	00:4:6
02-Mar-2017 14:44:16	ANILINE EMPTY DURATION	00:4:8

Operation Steps : PORTION 6

Date/Time	Description	Logged Data / Ack
02-Mar-2017 14:51:47	ANILINE FILL DURATION	00:4:2
02-Mar-2017 15:37:54	ANILINE EMPTY DURATION	00:4:8

Operation Steps : PORTION 7

Date/Time	Description	Logged Data / Ack
02-Mar-2017 15:45:19	ANILINE FILL DURATION	00:4:4
02-Mar-2017 16:31:27	ANILINE EMPTY DURATION	00:4:4

Operation Steps : PORTION 8

Date/Time	Description	Logged Data / Ack
02-Mar-2017 16:39:00	ANILINE FILL DURATION	00:4:6
02-Mar-2017 17:24:53	ANILINE EMPTY DURATION	00:4:2

Operation Steps : PORTION 9

Date/Time	Description	Logged Data / Ack
02-Mar-2017 17:32:26	ANILINE FILL DURATION	00:4:8
02-Mar-2017 18:18:15	ANILINE EMPTY DURATION	00:4:2

Operation Steps : PORTION 10

Date/Time	Description	Logged Data / Ack
02-Mar-2017 18:25:50	ANILINE FILL DURATION	00:4:6
02-Mar-2017 19:10:43	ANILINE EMPTY DURATION	00:4:2

SECTION 3 : PUW MEASURING VESSEL FOR SYNTHESIS

UNIT : FT92003

Operation : FT92003 FILLING AND EMPTYING

Operation Steps : FT92003 START

Date/Time	Description	Logged Data / Ack
02-Mar-2017 06:08:01	FT92003 START	STARTED

Operation Steps : PORTION 1

Date/Time	Description	Logged Data / Ack
02-Mar-2017 06:08:28	PUW BATCH NO	2017-03-02T06:08:27
02-Mar-2017 06:10:19	PUW FILL DURATION	00:1:48
02-Mar-2017 06:13:27	PUW EMPTY DURATION	00:1:10

Operation Steps : PORTION 2

Date/Time	Description	Logged Data / Ack
02-Mar-2017 06:15:10	PUW BATCH NO	2017-03-02T06:15:09
02-Mar-2017 06:17:00	PUW FILL DURATION	00:1:48
02-Mar-2017 11:31:17	PUW EMPTY DURATION	00:1:12

Operation Steps : PORTION 3

Date/Time	Description	Logged Data / Ack
02-Mar-2017 11:33:10	PUW BATCH NO	2017-03-02T11:33:08
02-Mar-2017 11:35:07	PUW FILL DURATION	00:1:56
02-Mar-2017 12:35:39	PUW EMPTY DURATION	00:1:12

Operation Steps : PORTION 4

Date/Time	Description	Logged Data / Ack
02-Mar-2017 12:37:26	PUW BATCH NO	2017-03-02T12:37:24
02-Mar-2017 12:39:43	PUW FILL DURATION	00:2:16
02-Mar-2017 13:43:34	PUW EMPTY DURATION	00:1:12

Operation Steps : PORTION 5

Date/Time	Description	Logged Data / Ack
02-Mar-2017 13:45:13	PUW BATCH NO	2017-03-02T13:45:12
02-Mar-2017 13:47:31	PUW FILL DURATION	00:2:16
02-Mar-2017 14:36:48	PUW EMPTY DURATION	00:1:12

Operation Steps : PORTION 6

Date/Time	Description	Logged Data / Ack
02-Mar-2017 14:38:27	PUW BATCH NO	2017-03-02T14:38:26
02-Mar-2017 14:40:42	PUW FILL DURATION	00:2:12
02-Mar-2017 15:30:27	PUW EMPTY DURATION	00:1:12

Operation Steps : PORTION 7

Date/Time	Description	Logged Data / Ack
02-Mar-2017 15:32:08	PUW BATCH NO	2017-03-02T15:32:07
02-Mar-2017 15:34:21	PUW FILL DURATION	00:2:12
02-Mar-2017 16:24:02	PUW EMPTY DURATION	00:1:12

Operation Steps : PORTION 8

Date/Time	Description	Logged Data / Ack
02-Mar-2017 16:25:37	PUW BATCH NO	2017-03-02T16:25:35
02-Mar-2017 16:27:50	PUW FILL DURATION	00:2:11
02-Mar-2017 17:17:28	PUW EMPTY DURATION	00:1:12

Operation Steps : PORTION 9

Date/Time	Description	Logged Data / Ack
02-Mar-2017 17:19:06	PUW BATCH NO	2017-03-02T17:19:05
02-Mar-2017 17:21:18	PUW FILL DURATION	00:2:10
02-Mar-2017 18:10:57	PUW EMPTY DURATION	00:1:12

Operation Steps : PORTION 10

Date/Time	Description	Logged Data / Ack
02-Mar-2017 18:12:35	PUW BATCH NO	2017-03-02T18:12:33

02-Mar-2017 18:14:50	PUW FILL DURATION	00:2:14
02-Mar-2017 19:03:23	PUW EMPTY DURATION	00:1:12

SECTION 4 : HCL MEASURING VESSEL FOR SYNTHESIS

UNIT : FT92101

Operation : FT92101 FILLING AND EMPTYING

Operation Steps : FT92101 START

Date/Time	Description	Logged Data / Ack
02-Mar-2017 06:10:55	FT92101 START	STARTED

Operation Steps : PORTION 1

Date/Time	Description	Logged Data / Ack
02-Mar-2017 06:12:15	HCl BATCH NO	FT-HCl-12-16-008
02-Mar-2017 06:20:37	HCl FILL DURATION	00:8:29
02-Mar-2017 06:23:14	HCl EMPTY DURATION	00:1:28

Operation Steps : PORTION 2

Date/Time	Description	Logged Data / Ack
02-Mar-2017 06:25:52	HCl BATCH NO	FT-HCl-12-16-008
02-Mar-2017 06:34:13	HCl FILL DURATION	00:8:30
02-Mar-2017 11:30:45	HCl EMPTY DURATION	00:1:30

Operation Steps : PORTION 3

Date/Time	Description	Logged Data / Ack
02-Mar-2017 11:33:24	HCl BATCH NO	FT-HCl-12-16-008
02-Mar-2017 11:41:50	HCl FILL DURATION	00:8:34
02-Mar-2017 12:35:07	HCl EMPTY DURATION	00:1:30

Operation Steps : PORTION 4

Date/Time	Description	Logged Data / Ack
02-Mar-2017 12:37:46	HCl BATCH NO	FT-HCl-12-16-008
02-Mar-2017 12:46:12	HCl FILL DURATION	00:8:33
02-Mar-2017 13:43:03	HCl EMPTY DURATION	00:1:28

Operation Steps : PORTION 5

Date/Time	Description	Logged Data / Ack
02-Mar-2017 13:45:38	HCI BATCH NO	FT-HCI-12-16-008
02-Mar-2017 13:54:06	HCI FILL DURATION	00:8:36
02-Mar-2017 14:36:19	HCI EMPTY DURATION	00:1:30

Operation Steps : PORTION 6

Date/Time	Description	Logged Data / Ack
02-Mar-2017 14:38:59	HCI BATCH NO	FT-HCI-12-16-008
02-Mar-2017 14:47:24	HCI FILL DURATION	00:8:34
02-Mar-2017 15:29:57	HCI EMPTY DURATION	00:1:28

Operation Steps : PORTION 7

Date/Time	Description	Logged Data / Ack
02-Mar-2017 15:32:34	HCI BATCH NO	FT-HCI-12-16-008
02-Mar-2017 15:41:02	HCI FILL DURATION	00:8:36
02-Mar-2017 16:23:30	HCI EMPTY DURATION	00:1:27

Operation Steps : PORTION 8

Date/Time	Description	Logged Data / Ack
02-Mar-2017 16:26:05	HCI BATCH NO	FT-HCI-12-16-008
02-Mar-2017 16:34:31	HCI FILL DURATION	00:8:33
02-Mar-2017 17:16:58	HCI EMPTY DURATION	00:1:28

Operation Steps : PORTION 9

Date/Time	Description	Logged Data / Ack
02-Mar-2017 17:19:39	HCI BATCH NO	FT-HCI-12-16-008
02-Mar-2017 17:28:07	HCI FILL DURATION	00:8:36
02-Mar-2017 18:10:28	HCI EMPTY DURATION	00:1:28

Operation Steps : PORTION 10

Date/Time	Description	Logged Data / Ack
02-Mar-2017 18:13:07	HCI BATCH NO	FT-HCI-12-16-008

02-Mar-2017 18:21:35	HCI FILL DURATION	00:8:35
02-Mar-2017 19:02:54	HCI EMPTY DURATION	00:1:28

SECTION 5 : NANO2 MEASURING VESSEL FOR SYNTHESIS

UNIT : FT92102

Operation : FT92102 FILLING AND EMPTYING

Operation Steps : FT92102 START

Date/Time	Description	Logged Data / Ack
02-Mar-2017 05:49:50	FT92102 START	STARTED

Operation Steps : PORTION 1

Date/Time	Description	Logged Data / Ack
02-Mar-2017 05:51:13	NaNO2 BATCH NO	FT-NaNO2-03-17-002
02-Mar-2017 05:58:04	NaNO2 FILL DURATION	00:7:8
02-Mar-2017 11:13:48	NaNO2 EFFECTIVE EMPTY DURATION	00:8:3
02-Mar-2017 11:13:48	NaNO2 TOTAL EMPTY DURATION	00:23:9
02-Mar-2017 11:13:48	NO OF BREAKS	15

Operation Steps : PORTION 2

Date/Time	Description	Logged Data / Ack
02-Mar-2017 11:16:28	NaNO2 BATCH NO	FT-NaNO2-03-17-002
02-Mar-2017 11:23:40	NaNO2 FILL DURATION	00:7:30
02-Mar-2017 12:18:06	NaNO2 EMPTY DURATION	00:8:1
02-Mar-2017 12:18:06	NaNO2 TOTAL EMPTY DURATION	00:25:1
02-Mar-2017 12:18:06	NO OF BREAKS	15

Operation Steps : PORTION 3

Date/Time	Description	Logged Data / Ack
02-Mar-2017 12:20:48	NaNO2 BATCH NO	FT-NaNO2-03-17-002
02-Mar-2017 12:27:47	NaNO2 FILL DURATION	00:7:16
02-Mar-2017 13:26:08	NaNO2 EMPTY DURATION	00:8:6
02-Mar-2017 13:26:08	NaNO2 TOTAL EMPTY DURATION	00:25:12
02-Mar-2017 13:26:08	NO OF BREAKS	15

Operation Steps : PORTION 4

Date/Time	Description	Logged Data / Ack
02-Mar-2017 13:28:50	NaNO2 BATCH NO	FT-NaNO2-03-17-002
02-Mar-2017 13:35:49	NaNO2 FILL DURATION	00:7:16
02-Mar-2017 14:19:28	NaNO2 EMPTY DURATION	00:8:7
02-Mar-2017 14:19:28	NaNO2 TOTAL EMPTY DURATION	00:25:16
02-Mar-2017 14:19:28	NO OF BREAKS	15

Operation Steps : PORTION 5

Date/Time	Description	Logged Data / Ack
02-Mar-2017 14:22:08	NaNO2 BATCH NO	FT-NaNO2-03-17-002
02-Mar-2017 14:29:05	NaNO2 FILL DURATION	00:7:14
02-Mar-2017 15:13:08	NaNO2 EMPTY DURATION	00:8:7
02-Mar-2017 15:13:08	NaNO2 TOTAL EMPTY DURATION	00:25:27
02-Mar-2017 15:13:08	NO OF BREAKS	15

Operation Steps : PORTION 6

Date/Time	Description	Logged Data / Ack
02-Mar-2017 15:15:46	NaNO2 BATCH NO	FT-NaNO2-03-17-002
02-Mar-2017 15:22:37	NaNO2 FILL DURATION	00:7:8
02-Mar-2017 16:06:37	NaNO2 EMPTY DURATION	00:8:9
02-Mar-2017 16:06:37	NaNO2 TOTAL EMPTY DURATION	00:25:28
02-Mar-2017 16:06:37	NO OF BREAKS	15

Operation Steps : PORTION 7

Date/Time	Description	Logged Data / Ack
02-Mar-2017 16:09:18	NaNO2 BATCH NO	FT-NaNO2-03-17-002
02-Mar-2017 16:16:12	NaNO2 FILL DURATION	00:7:10
02-Mar-2017 17:00:05	NaNO2 EMPTY DURATION	00:8:15
02-Mar-2017 17:00:05	NaNO2 TOTAL EMPTY DURATION	00:25:18

02-Mar-2017 17:00:05	NO OF BREAKS	15
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Operation Steps : PORTION 8

Date/Time	Description	Logged Data / Ack
02-Mar-2017 17:02:41	NaNO2 BATCH NO	FT-NaNO2-03-17-002
02-Mar-2017 17:09:32	NaNO2 FILL DURATION	00:7:8
02-Mar-2017 17:53:35	NaNO2 EMPTY DURATION	00:8:8
02-Mar-2017 17:53:35	NaNO2 TOTAL EMPTY DURATION	00:25:26
02-Mar-2017 17:53:35	NO OF BREAKS	15

Operation Steps : PORTION 9

Date/Time	Description	Logged Data / Ack
02-Mar-2017 17:56:15	NaNO2 BATCH NO	FT-NaNO2-03-17-002
02-Mar-2017 18:03:18	NaNO2 FILL DURATION	00:7:20
02-Mar-2017 18:46:01	NaNO2 EMPTY DURATION	00:8:6
02-Mar-2017 18:46:01	NaNO2 TOTAL EMPTY DURATION	00:24:43
02-Mar-2017 18:46:01	NO OF BREAKS	15

Operation Steps : PORTION 10

Date/Time	Description	Logged Data / Ack
02-Mar-2017 18:48:41	NaNO2 BATCH NO	FT-NaNO2-03-17-002
02-Mar-2017 19:16:52	NaNO2 FILL DURATION	00:7:12
02-Mar-2017 19:48:45	NaNO2 EMPTY DURATION	00:8:9
02-Mar-2017 19:48:45	NaNO2 TOTAL EMPTY DURATION	00:25:30
02-Mar-2017 19:48:45	NO OF BREAKS	15

SECTION 6 : DIAZOTATION REACTOR

UNIT : RG92000

Operation : EMPTYING

Operation Steps : PORTION 1 EMPTYING

Date/Time	Description	Logged Data / Ack
02-Mar-2017 11:28:10	EMPTYING DURATION	00:11:36

Operation : FLUSHING

Operation Steps : FILLING 1

Date/Time	Description	Logged Data / Ack
02-Mar-2017 20:10:55	PUW BATCH NO	2017-03-02T20:10:48
02-Mar-2017 20:10:55	PUW TOTAL VOLUME : 92-FI-901203	302.3 L

Operation Steps : FILLING 2

Date/Time	Description	Logged Data / Ack
02-Mar-2017 20:37:49	PUW BATCH NO	2017-03-02T20:37:43
02-Mar-2017 20:37:49	PUW TOTAL VOLUME : 92-FI-901203	302.5 L

Operation : EMPTYING

Operation Steps : PORTION 2 EMPTYING

Date/Time	Description	Logged Data / Ack
02-Mar-2017 12:32:26	EMPTYING DURATION	00:11:32

Operation Steps : PORTION 3 EMPTYING

Date/Time	Description	Logged Data / Ack
02-Mar-2017 13:40:28	EMPTYING DURATION	00:11:32

Operation Steps : PORTION 4 EMPTYING

Date/Time	Description	Logged Data / Ack
02-Mar-2017 14:33:42	EMPTYING DURATION	00:11:30

Operation Steps : PORTION 5 EMPTYING

Date/Time	Description	Logged Data / Ack
02-Mar-2017 15:27:24	EMPTYING DURATION	00:11:32

Operation Steps : PORTION 6 EMPTYING

Date/Time	Description	Logged Data / Ack
02-Mar-2017 16:20:55	EMPTYING DURATION	00:11:30

Operation Steps : PORTION 7 EMPTYING

Date/Time	Description	Logged Data / Ack
02-Mar-2017 17:14:21	EMPTYING DURATION	00:11:32

Operation Steps : PORTION 8 EMPTYING

Date/Time	Description	Logged Data / Ack
02-Mar-2017 18:07:53	EMPTYING DURATION	00:11:32

Operation Steps : PORTION 9 EMPTYING

Date/Time	Description	Logged Data / Ack
02-Mar-2017 19:00:20	EMPTYING DURATION	00:11:32

Operation Steps : PORTION 10 EMPTYING

Date/Time	Description	Logged Data / Ack
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02-Mar-2017 20:03:03	EMPTYING DURATION	00:11:34
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SECTION 7 : NaOH HOLDING TANK

UNIT : FT92402

Operation : NaOH FILLING

Operation Steps : FILLING

Batch Number : FT-SYN-03-17-004

Date/Time	Description	Logged Data / Ack
02-Mar-2017 06:04:40	NaOH BATCH NO	FT-NaOH-11-16-007
02-Mar-2017 06:04:40	NaOH TOTAL VOLUME : 92-FI-901101	1384.4 L
02-Mar-2017 06:05:02	FT94202 TANK LEVEL : 92-LI-901101	91.8 %

SECTION 8 : COUPLING REACTOR

UNIT : RS92050

Operation : FILLING

Operation Steps : pH CALIBRATION

Date/Time	Description	Logged Data / Ack
02-Mar-2017 07:00:28	CALIBRATED BY	AVKH

Operation Steps : PUW FILLING

Date/Time	Description	Logged Data / Ack
02-Mar-2017 07:14:21	PUW BATCH NO	2017-03-02T07:14:14
02-Mar-2017 07:14:21	PUW TOTAL VOLUME : 92-FI-901202	779.9 L

Operation Steps : NaOH FILLING

Date/Time	Description	Logged Data / Ack
02-Mar-2017 07:08:10	NaOH BATCH NO	FT-NaOH-11-16-007
02-Mar-2017 07:08:10	NaOH TOTAL VOLUME : 92-FI-901201	401.6 L

Operation Steps : RS92050 REACTOR LEVEL

Date/Time	Description	Logged Data / Ack
02-Mar-2017 07:14:43	RS92050 REACTOR LEVEL : 92-LI-901201	18.3 %

Operation Steps : ADD SALICYLIC ACID 1

Date/Time	Description	Logged Data / Ack
02-Mar-2017 09:07:11	SALICYLIC ACID BATCH NO	RAS1630600 ROS7 GTE SAAP
02-Mar-2017 09:07:11	SALICYLIC ACID ADDED AMOUNT	502 kg ROS7 GTE SAAP

Operation Steps : PUW FILLING AFTER SALICYLIC ACID

Date/Time	Description	Logged Data / Ack
02-Mar-2017 09:16:39	PUW BATCH NO	2017-03-02T09:16:33
02-Mar-2017 09:16:39	PUW TOTAL VOLUME : 92-FI-901202	683.7 L

Operation Steps : RS92050 REACTOR LEVEL AFTER SALICYLIC ACID

Date/Time	Description	Logged Data / Ack

02-Mar-2017 09:17:01	RS92050 REACTOR LEVEL : 92-LI-901201	28.9 %
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Operation Steps : pH ELECTRODE INSERT

Date/Time	Description	Logged Data / Ack
02-Mar-2017 09:49:04	pH ELECTRODE INSERT	INSERTED

Operation Steps : pH ADJUSTMENT BEFORE RG92000 RECEIVE

Date/Time	Description	Logged Data / Ack
02-Mar-2017 09:50:08	NaOH AMOUNT CONSUME FROM FT92402 : 92-LI-901101	0 %

Operation : pH ADJUSTMENT

Operation Steps : RG92000 PORTION 1 RECEIVED

Date/Time	Description	Logged Data / Ack
02-Mar-2017 11:47:15	NaOH AMOUNT CONSUME FROM FT92402 : 92-LI-901101	6.1 %

Operation Steps : RG92000 PORTION 2 RECEIVED

Date/Time	Description	Logged Data / Ack
02-Mar-2017 12:51:08	NaOH AMOUNT CONSUME FROM FT92402 : 92-LI-901101	4.8 %

Operation Steps : RG92000 PORTION 3 RECEIVED

Date/Time	Description	Logged Data / Ack
02-Mar-2017 13:49:54	NaOH AMOUNT CONSUME FROM FT92402 : 92-LI-901101	4.3 %

Operation Steps : RG92000 PORTION 4 RECEIVED

Date/Time	Description	Logged Data / Ack
02-Mar-2017 14:44:08	NaOH AMOUNT CONSUME FROM FT92402 : 92-LI-901101	4.5 %

Operation Steps : RG92000 PORTION 5 RECEIVED

Date/Time	Description	Logged Data / Ack
02-Mar-2017 15:34:52	NaOH AMOUNT CONSUME FROM FT92402 : 92-LI-901101	4.5 %

Operation Steps : RG92000 PORTION 6 RECEIVED

Date/Time	Description	Logged Data / Ack
02-Mar-2017 16:25:46	NaOH AMOUNT CONSUME FROM FT92402 : 92-LI-901101	4.4 %

Operation Steps : RG92000 PORTION 7 RECEIVED

Date/Time	Description	Logged Data / Ack
02-Mar-2017 17:16:19	NaOH AMOUNT CONSUME FROM FT92402 : 92-LI-901101	4.3 %

Operation Steps : RG92000 PORTION 8 RECEIVED

Date/Time	Description	Logged Data / Ack
02-Mar-2017 18:08:45	NaOH AMOUNT CONSUME FROM FT92402 : 92-LI-901101	4.3 %

Operation Steps : RG92000 PORTION 9 RECEIVED

Date/Time	Description	Logged Data / Ack

02-Mar-2017 19:18:44	NaOH AMOUNT CONSUME FROM FT92402 : 92-LI-901101	5.3 %
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Operation Steps : RG92000 PORTION 10 RECEIVED

Date/Time	Description	Logged Data / Ack
02-Mar-2017 20:03:52	NaOH AMOUNT CONSUME FROM FT92402 : 92-LI-901101	3.3 %

Operation Steps : AFTER COUPLING 1

Date/Time	Description	Logged Data / Ack
02-Mar-2017 20:04:24	START AFTER COUPLING 1	STARTED
02-Mar-2017 21:04:36	NaOH AMOUNT CONSUME	1 %
02-Mar-2017 21:04:36	TIME FOR AFTER COUPLING 1	0:59:58

Operation Steps : AFTER COUPLING 2

Date/Time	Description	Logged Data / Ack
02-Mar-2017 21:36:38	START AFTER COUPLING 2	STARTED
02-Mar-2017 22:07:57	NaOH AMOUNT CONSUME	2.1 %
02-Mar-2017 22:07:57	TIME FOR AFTER COUPLING 2	00:29:58

Operation Steps : COUPLING SAMPLE

Date/Time	Description	Logged Data / Ack
02-Mar-2017 22:19:24	COUPLING SAMPLE TAKEN	SAMPLE TAKEN ROS6 SATA SSPA

Operation Steps : pH ELECTRODE REMOVE

Date/Time	Description	Logged Data / Ack
02-Mar-2017 22:20:41	pH ELECTRODE REMOVE	REMOVED

Operation : EMPTYING

Operation Steps : FLUSH NaOH

Date/Time	Description	Logged Data / Ack
02-Mar-2017 23:55:47	NaOH BATCH NO	FT-NaOH-11-16-007
02-Mar-2017 23:55:47	NaOH TOTAL VOLUME : 92-FI-901201	0 L

Operation Steps : FLUSH PUW 1

Date/Time	Description	Logged Data / Ack
03-Mar-2017 00:08:32	PUW BATCH NO	2017-03-03T00:08:25
03-Mar-2017 00:08:32	PUW TOTAL VOLUME : 92-FI-901202	307.5 L

Operation Steps : FLUSH PUW 2

Date/Time	Description	Logged Data / Ack
03-Mar-2017 00:20:08	PUW BATCH NO	2017-03-03T00:20:01
03-Mar-2017 00:20:08	PUW TOTAL VOLUME : 92-FI-901202	307.5 L

Operation Steps : RS92050 EMPTIED

Date/Time	Description	Logged Data / Ack
03-Mar-2017 00:47:27	REACTOR IS EMPTY AND READY	YES ROS6 SATA SSPA

SECTION 9 : REDUCTION REACTOR

UNIT : RS92400

Operation : FILLING

Operation Steps : PRE FILLING

Date/Time	Description	Logged Data / Ack
03-Mar-2017 00:03:01	PUW BATCH ID	2017-03-03T00:02:54
03-Mar-2017 00:03:01	PUW TOTAL VOLUME : 92-FI-901301	3988.6 L

Operation Steps : RECEIVE COUPLING

Date/Time	Description	Logged Data / Ack
02-Mar-2017 23:20:48	RECEIVED BATCH	ENDED

Operation Steps : RS92400 REACTOR LEVEL

Date/Time	Description	Logged Data / Ack
03-Mar-2017 00:26:07	REACTOR LEVEL AFTER BATCH : 92-LI-901304	74.9 %

Operation Steps : pH CALIBRATION

Date/Time	Description	Logged Data / Ack
03-Mar-2017 00:34:59	CALIBRATED BY	PRDU

Operation : REDUCTION

Operation Steps : ADD EDTA 1

Date/Time	Description	Logged Data / Ack
03-Mar-2017 00:45:27	EDTA BATCH NO	RM-16-0092 ROS6 SATA SSPA
03-Mar-2017 00:45:27	EDTA ADDED AMOUNT	2 kg ROS6 SATA SSPA

Operation Steps : PUW ADDITION AFTER EDTA

Date/Time	Description	Logged Data / Ack
03-Mar-2017 00:57:58	PUW BATCH NO	2017-03-03T00:57:51
03-Mar-2017 00:57:58	PUW TOTAL VOLUME : 92-FI-901301	53.3 L

Operation Steps : pH ELECTRODE INSERT

Date/Time	Description	Logged Data / Ack
03-Mar-2017 00:59:39	pH ELECTRODE INSERT	INSERTED
03-Mar-2017 00:59:50	TEMPERATURE BEFORE SODIUM DITHIONITE	11.2 °C
03-Mar-2017 00:59:50	pH BEFORE SODIUM DITHIONITE	14.04 pH

Operation Steps : ADD SODIUM DITHIONITE 1

Date/Time	Description	Logged Data / Ack
03-Mar-2017 10:13:01	SODIUM DITHIONITE BATCH NO	49791488Q0 ROS7 GTE AJTA
03-Mar-2017 10:13:01	SODIUM DITHIONITE ADDED AMOUNT	1600 kg ROS6 GTE AJTA

Operation Steps : PUW ADDITION AFTER SODIUM DITHIONITE

Date/Time	Description	Logged Data / Ack
03-Mar-2017 10:30:16	PUW BATCH NO	2017-03-03T10:30:09
03-Mar-2017 10:30:16	PUW TOTAL VOLUME : 92-FI-901301	407.6 L

Operation Steps : HEATING

Date/Time	Description	Logged Data / Ack
03-Mar-2017 11:28:34	TEMPERATURE STABLE CHANGE	-0.1 °C
03-Mar-2017 11:28:34	pH STABLE CHANGE	0 pH
03-Mar-2017 11:29:01	pH AFTER HEATING	10.21 pH

03-Mar-2017 11:28:58	TEMPERATURE AFTER HEATING	97.7 °C
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Operation Steps : CHECK PRODUCT COLOR 1

Date/Time	Description	Logged Data / Ack
03-Mar-2017 11:40:46	PRODUCT IS YELLOW	YES ROS6 GTE SAAP

Operation Steps : pH ELECTRODE REMOVE

Date/Time	Description	Logged Data / Ack
03-Mar-2017 11:42:07	pH ELECTRODE REMOVE	REMOVED

Operation : DISTILLATION

Operation Steps : START DISTILLATION

Date/Time	Description	Logged Data / Ack
03-Mar-2017 11:52:29	STARTED	STARTED

Operation Steps : LEVEL BEFORE DISTILLATION

Date/Time	Description	Logged Data / Ack
03-Mar-2017 11:52:38	RS92400 REACTOR LEVEL : 92-LI-901304	76.6 %

Operation Steps : TIME REDUCTION TO DISTILLATION

Date/Time	Description	Logged Data / Ack
03-Mar-2017 11:52:57	TIME REDUCTION TO DISTILLATION	00:40:44

Operation Steps : DISTILLING

Date/Time	Description	Logged Data / Ack
03-Mar-2017 16:24:31	DISTILLATION TIME	4:28:34
03-Mar-2017 16:24:31	DISTILLATE VOLUME : 92-FI-901303	4986.3 L
03-Mar-2017 16:33:39	RS92400 REACTOR LEVEL : 92-LI-901304	50.5 %

Operation Steps : pH ELECTRODE

Date/Time	Description	Logged Data / Ack
03-Mar-2017 16:35:29	CALIBRATED BY	MBAA
03-Mar-2017 16:37:32	pH ELECTRODE INSERT	INSERTED

Operation Steps : PUW ADDITION AFTER DISTILLATION

Date/Time	Description	Logged Data / Ack
03-Mar-2017 16:51:07	PUW BATCH NO	2017-03-03T16:51:00
03-Mar-2017 16:51:07	PUW TOTAL VOLUME : 92-FI-901301	914.4 L

Operation Steps : ADD ASCORBIC ACID 1

Date/Time	Description	Logged Data / Ack
03-Mar-2017 17:01:15	ASCORBIC ACID BATCH NO	RM-16-0200 ROS6 RRAL MBAA
03-Mar-2017 17:01:15	ASCORBIC ACID ADDED AMOUNT	2 kg ROS6 RRAL MBAA

Operation Steps : PUW ADDITION AFTER ASCORBIC ACID

Date/Time	Description	Logged Data / Ack
03-Mar-2017 17:09:13	PUW BATCH NO	2017-03-03T17:09:06
03-Mar-2017 17:09:13	PUW TOTAL VOLUME : 92-FI-901301	1233.5 L

Operation Steps : ACID pH ADJUSTMENT

Date/Time	Description	Logged Data / Ack
03-Mar-2017 18:44:56	H2SO4 BATCH NO 1	FT-SUL-01-17-001
03-Mar-2017 18:44:56	H2SO4 TOTAL VOLUME 1 : 92-FI-901302	245.9 L
03-Mar-2017 18:45:22	pH AFTER ADJUSTMENT	7.53 pH

Operation Steps : PUW ADDITION AFTER pH ADJUSTMENT

Date/Time	Description	Logged Data / Ack
03-Mar-2017 19:29:59	PUW BATCH NO	2017-03-03T19:29:52
03-Mar-2017 19:29:59	PUW TOTAL VOLUME : 92-FI-901301	2004.9 L

Operation Steps : pH ELECTRODE

Date/Time	Description	Logged Data / Ack
03-Mar-2017 19:31:12	pH ELECTRODE REMOVE	REMOVED

Operation : EMPTYING

Operation Steps : PENDING FOR PRECIPITATION

Date/Time	Description	Logged Data / Ack
03-Mar-2017 20:05:54	RS92400 EMPTY START	STARTED

Operation Steps : RECIRCULATE WITH FULLL COOLING

Date/Time	Description	Logged Data / Ack
03-Mar-2017 20:25:24	TIME FROM DISTILLATION TO COOLING	ENDED

Operation Steps : RS92400 START EMPTYING TO RG92173

Date/Time	Description	Logged Data / Ack
03-Mar-2017 21:49:43	START EMPTYING	STARTED
03-Mar-2017 22:15:04	TIME COOL TO EMPTY	1:49:30
03-Mar-2017 22:15:04	EFFECTIVE EMPTYING TIME	00:24:42
03-Mar-2017 22:15:04	TOTAL EMPTYING TIME	00:24:42

Operation Steps : FLUSH WITH SMALL RECIRCULATION TO RG92173

Date/Time	Description	Logged Data / Ack
03-Mar-2017 22:46:28	PUW BATCH NO	2017-03-03T22:46:17
03-Mar-2017 22:46:28	PUW TOTAL VOLUME : 92-FI-901305	190.4 L

Operation Steps : FLSUH WITH LARGE RECIRCULATION TO RG92173

Date/Time	Description	Logged Data / Ack
03-Mar-2017 23:35:56	PUW BATCH NO	2017-03-03T23:35:45
03-Mar-2017 23:35:56	PUW TOTAL VOLUME : 92-FI-901305	259.4 L

Operation Steps : FLSUH TOP RINSE 1 TO RG92173

Date/Time	Description	Logged Data / Ack
04-Mar-2017 00:04:30	PUW BATCH NO	2017-03-04T00:04:23
04-Mar-2017 00:04:30	PUW TOTAL VOLUME : 92-FI-901301	371 L

Operation Steps : FLSUH TOP RINSE 2 TO RG92173

Date/Time	Description	Logged Data / Ack
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04-Mar-2017 00:16:10	PUW BATCH NO	2017-03-04T00:16:03
04-Mar-2017 00:16:10	PUW TOTAL VOLUME : 92-FI-901301	371 L

Operation : CLEANING

Operation Steps : PUW FOR CLEANING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 00:26:16	PUW BATCH NO	2017-03-04T00:26:09
04-Mar-2017 00:26:16	PUW TOTAL VOLUME : 92-FI-901301	405.3 L
04-Mar-2017 00:46:42	REACTOR IS EMPTY AND CLEAN	YES ROS6 SATA SSPA

SECTION 10 PRECIPITATION REACTOR

UNIT : RG92173

Operation : FILLING

Operation Steps : START RG92173

Date/Time	Description	Logged Data / Ack
03-Mar-2017 20:06:32	START	STARTED

Operation Steps : pH ELECTRODE

Date/Time	Description	Logged Data / Ack
03-Mar-2017 23:24:28	CALIBRATED BY	SATA
03-Mar-2017 23:26:35	pH ELECTRODE INSERT	INSERTED

Operation Steps : PUW ADDITION

Date/Time	Description	Logged Data / Ack
03-Mar-2017 20:09:09	PUW BATCH NO	2017-03-03T20:09:02
03-Mar-2017 20:09:09	PUW TOTAL VOLUME : 92-FI-901403	15.9 L
03-Mar-2017 22:23:22	RG92173 REACTOR LEVEL : 92-LI-901402	74.5 %

Operation : PRECIPITATION

Operation Steps : START PRECIPITATION

Date/Time	Description	Logged Data / Ack
03-Mar-2017 23:27:35	pH BEFOR H2SO4	7.49 pH
03-Mar-2017 23:27:35	TEMPERATURE BEFORE H2SO4	14.8 °C

Operation Steps : ADD H2SO4

Date/Time	Description	Logged Data / Ack
04-Mar-2017 01:05:44	H2SO4 BATCH NO	FT-SUL-01-17-001
04-Mar-2017 01:05:44	H2SO4 TOTAL VOLUME : 92-FI-901404	955.6 L

Operation Steps : TOP RINSE 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 01:15:00	PUW BATCH NO	2017-03-04T01:14:52
04-Mar-2017 01:15:00	PUW TOTAL VOLUME : 92-FI-901403	84.4 L

Operation Steps : TOP RINSE 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 01:22:28	PUW BATCH NO	2017-03-04T01:22:20
04-Mar-2017 01:22:28	PUW TOTAL VOLUME : 92-FI-901403	84 L

Operation Steps : TOP RINSE 3

Date/Time	Description	Logged Data / Ack
04-Mar-2017 01:29:56	PUW BATCH NO	2017-03-04T01:29:48
04-Mar-2017 01:29:56	PUW TOTAL VOLUME : 92-FI-901403	84.4 L

Operation Steps : TOP RINSE 4

Date/Time	Description	Logged Data / Ack
04-Mar-2017 01:37:26	PUW BATCH NO	2017-03-04T01:37:19
04-Mar-2017 01:37:26	PUW TOTAL VOLUME : 92-FI-901403	84.5 L

Operation Steps : TOP RINSE 5

Date/Time	Description	Logged Data / Ack
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04-Mar-2017 01:44:56	PUW BATCH NO	2017-03-04T01:44:49
04-Mar-2017 01:44:56	PUW TOTAL VOLUME : 92-FI-901403	84.6 L

Operation Steps : TOP RINSE 6

Date/Time	Description	Logged Data / Ack
04-Mar-2017 01:52:26	PUW BATCH NO	2017-03-04T01:52:19
04-Mar-2017 01:52:26	PUW TOTAL VOLUME : 92-FI-901403	84.1 L

Operation Steps : TOP RINSE 7

Date/Time	Description	Logged Data / Ack
04-Mar-2017 01:59:54	PUW BATCH NO	2017-03-04T01:59:47
04-Mar-2017 01:59:54	PUW TOTAL VOLUME : 92-FI-901403	84.5 L

Operation Steps : TOP RINSE 8

Date/Time	Description	Logged Data / Ack
04-Mar-2017 02:07:24	PUW BATCH NO	2017-03-04T02:07:17
04-Mar-2017 02:07:24	PUW TOTAL VOLUME : 92-FI-901403	84 L

Operation Steps : TOP RINSE 9

Date/Time	Description	Logged Data / Ack
04-Mar-2017 02:14:54	PUW BATCH NO	2017-03-04T02:14:47
04-Mar-2017 02:14:54	PUW TOTAL VOLUME : 92-FI-901403	85.1 L

Operation Steps : TOP RINSE 10

Date/Time	Description	Logged Data / Ack
04-Mar-2017 02:22:22	PUW BATCH NO	2017-03-04T02:22:15
04-Mar-2017 02:22:22	PUW TOTAL VOLUME : 92-FI-901403	84.8 L

Operation Steps : pH ADJUSTMENT FOAM

Date/Time	Description	Logged Data / Ack
04-Mar-2017 04:46:37	H2SO4 BATCH NO 1	FT-SUL-01-17-001
04-Mar-2017 04:46:37	H2SO4 TOTAL VOLUME 1 : 92-FI-901404	538 L
04-Mar-2017 04:47:04	pH AFTER ADJUSTMENT	4.05 pH

Operation Steps : PIPE RINSE

Date/Time	Description	Logged Data / Ack
04-Mar-2017 04:49:53	PUW BATCH NO	2017-03-04T04:49:45
04-Mar-2017 04:49:53	PUW TOTAL VOLUME : 92-FI-901403	96.9 L

Operation Steps : TOP FILLING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 04:51:55	PUW BATCH NO	2017-03-04T04:51:47
04-Mar-2017 04:51:55	PUW TOTAL VOLUME : 92-FI-901403	6.4 L
04-Mar-2017 04:52:18	RG92173 REACTOR LEVEL : 92-LI-901402	94.8 %
04-Mar-2017 04:52:48	pH AFTER TOP FILLING	4.05 pH
04-Mar-2017 04:52:48	TEMPERATURE AFTER TOP FILLING	23.3 °C

Operation Steps : TOTAL PRECIPITATION TIME

Date/Time	Description	Logged Data / Ack
04-Mar-2017 04:53:03	TOTAL PRECIPITATION TIME	5.25.8

Operation : EMPTYING

Operation Steps : EMPTYING START

Date/Time	Description	Logged Data / Ack
04-Mar-2017 04:59:44	EMPTYING START	STARTED ROS4 SATA SSPA
04-Mar-2017 05:00:15	LEVEL BEFORE EMPTYING	94.2 %
04-Mar-2017 05:00:46	pH BEFORE EMPTYING	4.05 pH
04-Mar-2017 05:00:46	TEMPERATURE BEFORE EMPTYING	23.3 °C

Operation Steps : pH ELECTRODE

Date/Time	Description	Logged Data / Ack
04-Mar-2017 05:02:00	pH ELECTRODE REMOVE	REMOVED

Operation Steps : EMPTYING LOT 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:12:27	REACTOR LEVEL AFTER LOT 1	62 %
04-Mar-2017 08:12:27	EMPTY PRODUCT QTY : 92-FI-901503	6521.7 L

Operation Steps : PUW RINSE

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:14:51	PUW BATCH NO	2017-03-04T08:14:44
04-Mar-2017 08:14:51	PUW TOTAL VOLUME : 92-FI-901403	107.9 L

Operation Steps : EMPTYING LOT 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:34:00	EMPTYING LOT 2 START	STARTEDROS4 JSUS
04-Mar-2017 16:40:45	REACTOR LEVEL AFTER LOT 1	35.9 %
04-Mar-2017 16:40:45	EMPTY PRODUCT QTY : 92-FI-901503	6542 L

Operation Steps : EMPTYING LOT 3

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:12:00	EMPTY PRODUCT QTY : 92-FI-901503	5317.1 L
05-Mar-2017 00:12:00	TOTAL PRODUCT QTY	18381 L

05-Mar-2017 00:12:00	TOTAL EMPTYING TIME	19:18:26
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Operation Steps : TOP RINSE

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:22:15	PUW BATCH NO	2017-03-05T00:22:13
05-Mar-2017 00:22:15	PUW TOTAL VOLUME : 92-FI-901403	219.2 L

Operation Steps : PIPE RINSE

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:25:21	PUW BATCH NO	2017-03-05T00:25:19
05-Mar-2017 00:25:21	PUW TOTAL VOLUME : 92-FI-901403	28.1 L

Operation Steps : TOP RINSE 1

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:29:09	PUW BATCH NO	2017-03-05T00:29:07
05-Mar-2017 00:29:09	PUW TOTAL VOLUME : 92-FI-901403	69.3 L

Operation Steps : TOP RINSE 2

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:34:41	PUW BATCH NO	2017-03-05T00:34:39
05-Mar-2017 00:34:41	PUW TOTAL VOLUME : 92-FI-901403	68.7 L

Operation Steps : TOP RINSE 3

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:40:17	PUW BATCH NO	2017-03-05T00:40:16
05-Mar-2017 00:40:17	PUW TOTAL VOLUME : 92-FI-901403	68.7 L

Operation : CLEANING
 Operation Steps : PUW RINSE

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:52:10	PUW BATCH NO	2017-03-05T00:52:03
05-Mar-2017 00:52:10	PUW TOTAL VOLUME : 92-FI-901403	193.6 L
05-Mar-2017 01:25:08	REACTOR IS EMPTY AND CLEAN	YES ROS6 RABH MBAA

SECTION 11 CENTRIFUGATION

UNIT : CE92190

Operation : CE92190 LOT-1 START

Operation Steps : INITIALISATION

Date/Time	Description	Logged Data / Ack
04-Mar-2017 04:54:40	CE92190-LOT1 START	STARTED

Operation : CE92190 LOT-1 CENTRIFUGING

Operation Steps : CENTRIFUGING START

Date/Time	Description	Logged Data / Ack
04-Mar-2017 04:54:53	LOT-1 START CENTRIFUGING	STARTED
04-Mar-2017 05:07:48	LAST CLEANING DATE AND TIME	2017-03-02T17:46:19

Operation Steps : RECEIVE PORTION 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:12:37	CENTRIFUGE SPEED AT PORTION 1	499 RPM

Operation Steps : RECEIVE PORTION 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:12:37	CENTRIFUGE SPEED AT PORTION 2	499 RPM

Operation Steps : RECEIVE PORTION 3

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:12:37	CENTRIFUGE SPEED AT PORTION 3	549 RPM

Operation Steps : RECEIVE PORTION 4

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:12:37	CENTRIFUGE SPEED AT PORTION 4	599 RPM

Operation Steps : RECEIVE PORTION 5

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:12:37	CENTRIFUGE SPEED AT PORTION 5	649 RPM

Operation Steps : SPINNING AFTER CENTRIFUGING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:28:41	SPINNING SPEED	749 RPM
04-Mar-2017 08:28:41	SPINNING TIME	15

Operation : CE92190 LOT-1 PUW RINSING

Operation Steps : PUW RINSING 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:29:01	PUW START RINSING	STARTED
04-Mar-2017 08:37:12	PUW BATCH NO	2017-03-04T08:37:06
04-Mar-2017 08:37:13	PUW TOTAL VOLUME : 92-FI-901504	243 L

Operation Steps : SPINNING AFTER PUW RINSING 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:41:44	CENTRIFUGE SPEED	700 RPM

Operation Steps : PUW RINSING 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:42:02	PUW START RINSING	STARTED
04-Mar-2017 08:50:43	PUW BATCH NO	2017-03-04T08:50:36
04-Mar-2017 08:50:43	PUW TOTAL VOLUME : 92-FI-901504	243 L

Operation Steps : SPINNING AFTER PUW RINSING 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:56:16	CENTRIFUGE SPEED	850 RPM

Operation Steps : PUW RINSING 3

Date/Time	Description	Logged Data / Ack
04-Mar-2017 08:56:36	PUW START RINSING	STARTED
04-Mar-2017 09:05:05	PUW BATCH NO	2017-03-04T09:04:58
04-Mar-2017 09:05:05	PUW TOTAL VOLUME : 92-FI-901504	244 L

Operation Steps : SPINNING AFTER PUW RINSING 3

Date/Time	Description	Logged Data / Ack
04-Mar-2017 09:10:36	CENTRIFUGE SPEED	849 RPM

Operation Steps : LAST PUW RINSING

Date/Time	Description	Logged Data / Ack
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04-Mar-2017 09:10:56	PUW START RINSING	STARTED
04-Mar-2017 09:18:59	PUW BATCH NO	2017-03-04T09:18:52
04-Mar-2017 09:18:59	PUW TOTAL VOLUME : 92-FI-901504	244 L

Operation Steps : LAST SPINNING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 09:19:17	SPINNING START	STARTED
04-Mar-2017 10:04:42	CENTRIFUGE SPEED	900 RPM
04-Mar-2017 10:04:42	SPINNING END	ENDED
04-Mar-2017 10:04:42	TOTAL PUW RINSING VOLUME	974 L
04-Mar-2017 10:04:42	TOTAL NUMBER OF PUW RINSING	4

Operation : CE92190 LOT-1 EMPTYING

Operation Steps : START EMPTYING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 10:05:10	TOTAL CENTRIFUGING TIME	4:54:2
04-Mar-2017 10:05:10	START EMPTYING	STARTED

Operation Steps : HCR SCRAPPING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 10:46:22	START HCR	YES ROS4 JSAW

Operation Steps : MANUAL EMPTYING TIME

Date/Time	Description	Logged Data / Ack
04-Mar-2017 12:45:30	MANUAL EMPTYING TIME	34.17

Operation Steps : END EMPTYING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 12:45:36	END EMPTYING	ENDED

Operation : CE92190 LOT-2 CLEANING BEFORE BATCH

Operation Steps : CLEANING START

Date/Time	Description	Logged Data / Ack
04-Mar-2017 12:56:21	CE92190 CLEAN AND READY	NO ROS4 JSAW JSUS
04-Mar-2017 12:57:15	CE92190 CLEANING TYPE	SHORT CLEANING ROS4 JSAW JSUS

Operation Steps : PUW PIPE FLUSHING 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 13:10:07	PUW BATCH NO	2017-03-04T13:10:01
04-Mar-2017 13:10:07	PUW TOTAL VOLUME : 92-FI-901502	293 L

Operation Steps : PUW INTERNAL FLUSHING 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 13:15:45	PUW BATCH NO	2017-03-04T13:15:39
04-Mar-2017 13:15:45	PUW TOTAL VOLUME : 92-FI-901504	154 L

Operation Steps : PUW PIPE FLUSHING 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 13:25:37	PUW BATCH NO	2017-03-04T13:25:31
04-Mar-2017 13:25:37	PUW TOTAL VOLUME : 92-FI-901502	293 L

Operation Steps : PUW INTERNAL FLUSHING 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 13:31:39	PUW BATCH NO	2017-03-04T13:31:33
04-Mar-2017 13:31:39	PUW TOTAL VOLUME : 92-FI-901504	153 L

Operation Steps : SPINNING AFTER CLEANING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 13:35:10	SPINNING SPEED	398 RPM
04-Mar-2017 13:35:10	SPINNING TIME	3

Operation Steps : CLEANING END

Date/Time	Description	Logged Data / Ack
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04-Mar-2017	13:43:47	MANUAL CLEANING MONITOR TIME	1.93
04-Mar-2017	13:50:46	CE92190 CLEAN AND READY	YES

Operation : CE92190 LOT-2 CENTRIFUGING

Operation Steps : CENTRIFUGING START

Date/Time	Description	Logged Data / Ack
04-Mar-2017 13:52:02	LOT-2 START CENTRIFUGING	STARTED
04-Mar-2017 14:02:28	LAST CLEANING DATE AND TIME	2017-03-04T13:43:49

Operation Steps : RECEIVE PORTION 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 16:40:55	CENTRIFUGE SPEED AT PORTION 1	499 RPM

Operation Steps : RECEIVE PORTION 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 16:40:55	CENTRIFUGE SPEED AT PORTION 2	499 RPM

Operation Steps : RECEIVE PORTION 3

Date/Time	Description	Logged Data / Ack
04-Mar-2017 16:40:55	CENTRIFUGE SPEED AT PORTION 3	550 RPM

Operation Steps : RECEIVE PORTION 4

Date/Time	Description	Logged Data / Ack
04-Mar-2017 16:40:55	CENTRIFUGE SPEED AT PORTION 4	600 RPM

Operation Steps : RECEIVE PORTION 5

Date/Time	Description	Logged Data / Ack
04-Mar-2017 16:40:55	CENTRIFUGE SPEED AT PORTION 5	649 RPM

Operation Steps : SPINNING AFTER CENTRIFUGING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 16:56:59	SPINNING SPEED	750 RPM
04-Mar-2017 16:56:59	SPINNING TIME	15

Operation : CE92190 LOT-2 PUW RINSING

Operation Steps : PUW RINSING 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 16:57:19	PUW START RINSING	STARTED
04-Mar-2017 17:05:28	PUW BATCH NO	2017-03-04T17:05:21
04-Mar-2017 17:05:28	PUW TOTAL VOLUME : 92-FI-901504	244 L

Operation Steps : SPINNING AFTER PUW RINSING 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:10:01	CENTRIFUGE SPEED	700 RPM

Operation Steps : PUW RINSING 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:10:21	PUW START RINSING	STARTED
04-Mar-2017 17:18:58	PUW BATCH NO	2017-03-04T17:18:51
04-Mar-2017 17:18:58	PUW TOTAL VOLUME : 92-FI-901504	243 L

Operation Steps : SPINNING AFTER PUW RINSING 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:24:31	CENTRIFUGE SPEED	849 RPM

Operation Steps : PUW RINSING 3

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:24:51	PUW START RINSING	STARTED
04-Mar-2017 17:33:22	PUW BATCH NO	2017-03-04T17:33:15
04-Mar-2017 17:33:22	PUW TOTAL VOLUME : 92-FI-901504	244 L

Operation Steps : SPINNING AFTER PUW RINSING 3

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:38:55	CENTRIFUGE SPEED	849 RPM

Operation Steps : LAST PUW RINSING

Date/Time	Description	Logged Data / Ack
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04-Mar-2017 17:39:14	PUW START RINSING	STARTED
04-Mar-2017 17:47:16	PUW BATCH NO	2017-03-04T17:47:09
04-Mar-2017 17:47:16	PUW TOTAL VOLUME : 92-FI-901504	244 L

Operation Steps : LAST SPINNING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:47:34	SPINNING START	STARTED
04-Mar-2017 18:32:59	CENTRIFUGE SPEED	900 RPM
04-Mar-2017 18:32:59	SPINNING END	ENDED
04-Mar-2017 18:32:59	TOTAL PUW RINSING VOLUME	975 L
04-Mar-2017 18:32:59	TOTAL NUMBER OF PUW RINSING	4

Operation : CE92190 LOT-2 EMPTYING

Operation Steps : START EMPTYING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 18:33:27	TOTAL CENTRIFUGING TIME	4:27.40
04-Mar-2017 18:33:27	START EMPTYING	STARTED

Operation Steps : HCR SCRAPPING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 19:08:49	START HCR	YES ROS4 AJTA

Operation Steps : MANUAL EMPTYING TIME

Date/Time	Description	Logged Data / Ack
04-Mar-2017 20:37:48	MANUAL EMPTYING TIME	41.23

Operation Steps : END EMPTYING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 20:37:54	END EMPTYING	ENDED

Operation : CE92190 LOT-3 CLEANING BEFORE BATCH

Operation Steps : CLEANING START

Date/Time	Description	Logged Data / Ack
04-Mar-2017 20:42:08	CE92190 CLEAN AND READY	NO ROS4 AJTA SAAP
04-Mar-2017 20:43:01	CE92190 CLEANING TYPE	SHORT CLEANING ROS4 AJTA SAAP

Operation Steps : PUW PIPE FLUSHING 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 20:55:55	PUW BATCH NO	2017-03-04T20:55:48
04-Mar-2017 20:55:55	PUW TOTAL VOLUME : 92-FI-901502	294 L

Operation Steps : PUW INTERNAL FLUSHING 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 21:01:59	PUW BATCH NO	2017-03-04T21:01:52
04-Mar-2017 21:01:59	PUW TOTAL VOLUME : 92-FI-901504	152 L

Operation Steps : PUW PIPE FLUSHING 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 21:11:55	PUW BATCH NO	2017-03-04T21:11:48
04-Mar-2017 21:11:55	PUW TOTAL VOLUME : 92-FI-901502	294 L

Operation Steps : PUW INTERNAL FLUSHING 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 21:17:53	PUW BATCH NO	2017-03-04T21:17:46
04-Mar-2017 21:17:53	PUW TOTAL VOLUME : 92-FI-901504	154 L

Operation Steps : SPINNING AFTER CLEANING

Date/Time	Description	Logged Data / Ack
04-Mar-2017 21:21:26	SPINNING SPEED	398 RPM
04-Mar-2017 21:21:26	SPINNING TIME	3

Operation Steps : CLEANING END

Date/Time	Description	Logged Data / Ack
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04-Mar-2017 22:05:25	MANUAL CLEANING MONITOR TIME	1.63
04-Mar-2017 22:09:00	CE92190 CLEAN AND READY	YES ROS4 RRAL MBAA

Operation : CE92190 LOT-3 CENTRIFUGING

Operation Steps : CENTRIFUGING START

Date/Time	Description	Logged Data / Ack
04-Mar-2017 22:10:18	LOT-3 START CENTRIFUGING	STARTED
04-Mar-2017 22:11:13	LAST CLEANING DATE AND TIME	2017-03-04T22:05:27

Operation Steps : RECEIVE PORTION 1

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:42:25	CENTRIFUGE SPEED AT PORTION 1	500 RPM

Operation Steps : RECEIVE PORTION 2

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:42:25	CENTRIFUGE SPEED AT PORTION 2	499 RPM

Operation Steps : RECEIVE PORTION 3

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:42:25	CENTRIFUGE SPEED AT PORTION 3	548 RPM

Operation Steps : RECEIVE PORTION 4

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:42:25	CENTRIFUGE SPEED AT PORTION 4	599 RPM

Operation Steps : RECEIVE PORTION 5

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:42:25	CENTRIFUGE SPEED AT PORTION 5	650 RPM

Operation Steps : SPINNING AFTER CENTRIFUGING

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:58:28	SPINNING SPEED	750 RPM
05-Mar-2017 00:58:28	SPINNING TIME	15

Operation : CE92190 LOT-3 PUW RINSING

Operation Steps : PUW RINSING 1

Date/Time	Description	Logged Data / Ack
05-Mar-2017 00:58:48	PUW START RINSING	STARTED
05-Mar-2017 01:06:57	PUW BATCH NO	2017-03-05T01:06:51
05-Mar-2017 01:06:57	PUW TOTAL VOLUME : 92-FI-901504	243 L

Operation Steps : SPINNING AFTER PUW RINSING 1

Date/Time	Description	Logged Data / Ack
05-Mar-2017 01:11:30	CENTRIFUGE SPEED	700 RPM

Operation Steps : PUW RINSING 2

Date/Time	Description	Logged Data / Ack
05-Mar-2017 01:11:50	PUW START RINSING	STARTED
05-Mar-2017 01:20:29	PUW BATCH NO	2017-03-05T01:20:23
05-Mar-2017 01:20:29	PUW TOTAL VOLUME : 92-FI-901504	243 L

Operation Steps : SPINNING AFTER PUW RINSING 2

Date/Time	Description	Logged Data / Ack
05-Mar-2017 01:26:02	CENTRIFUGE SPEED	850 RPM

Operation Steps : PUW RINSING 3

Date/Time	Description	Logged Data / Ack
05-Mar-2017 01:26:22	PUW START RINSING	STARTED
05-Mar-2017 01:34:49	PUW BATCH NO	2017-03-05T01:34:43
05-Mar-2017 01:34:49	PUW TOTAL VOLUME : 92-FI-901504	243 L

Operation Steps : SPINNING AFTER PUW RINSING 3

Date/Time	Description	Logged Data / Ack
05-Mar-2017 01:40:22	CENTRIFUGE SPEED	851 RPM

Operation Steps : LAST PUW RINSING

Date/Time	Description	Logged Data / Ack
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05-Mar-2017 01:40:42	PUW START RINSING	STARTED
05-Mar-2017 01:48:44	PUW BATCH NO	2017-03-05T01:48:37
05-Mar-2017 01:48:44	PUW TOTAL VOLUME : 92-FI-901504	243 L

Operation Steps : LAST SPINNING

Date/Time	Description	Logged Data / Ack
05-Mar-2017 01:49:01	SPINNING START	STARTED
05-Mar-2017 02:34:27	CENTRIFUGE SPEED	900 RPM
05-Mar-2017 02:34:27	SPINNING END	ENDED
05-Mar-2017 02:34:27	TOTAL PUW RINSING VOLUME	972 L
05-Mar-2017 02:34:27	TOTAL NUMBER OF PUW RINSING	4

Operation : CE92190 LOT-3 EMPTYING

Operation Steps : START EMPTYING

Date/Time	Description	Logged Data / Ack
05-Mar-2017 02:34:55	TOTAL CENTRIFUGING TIME	4:20:22
05-Mar-2017 02:34:55	START EMPTYING	STARTED

Operation Steps : HCR SCRAPPING

Date/Time	Description	Logged Data / Ack
05-Mar-2017 03:04:36	START HCR	YES ROS4 RRAL

Operation Steps : MANUAL EMPTYING TIME

Date/Time	Description	Logged Data / Ack
05-Mar-2017 03:52:00	MANUAL EMPTYING TIME	29.57

Operation Steps : END EMPTYING

Date/Time	Description	Logged Data / Ack
05-Mar-2017 03:52:06	END EMPTYING	ENDED

Operation : CE92190 LOT-3 CLEANING AFTER BATCH

Operation Steps : CLEANING START

Date/Time	Description	Logged Data / Ack
05-Mar-2017 03:57:36	CE92190 CLEAN AND READY	NO ROS4 RRAL MBAA
05-Mar-2017 03:58:33	CE92190 CLEANING TYPE	SHORT CLEANING ROS4 RRAL MBAA

Operation Steps : PUW PIPE FLUSHING 1

Date/Time	Description	Logged Data / Ack
05-Mar-2017 04:11:24	PUW BATCH NO	2017-03-05T04:11:17
05-Mar-2017 04:11:24	PUW TOTAL VOLUME : 92-FI-901502	294 L

Operation Steps : PUW INTERNAL FLUSHING 1

Date/Time	Description	Logged Data / Ack
05-Mar-2017 04:17:24	PUW BATCH NO	2017-03-05T04:17:17
05-Mar-2017 04:17:24	PUW TOTAL VOLUME : 92-FI-901504	152 L

Operation Steps : PUW PIPE FLUSHING 2

Date/Time	Description	Logged Data / Ack
05-Mar-2017 04:27:16	PUW BATCH NO	2017-03-05T04:27:09
05-Mar-2017 04:27:16	PUW TOTAL VOLUME : 92-FI-901502	293 L

Operation Steps : PUW INTERNAL FLUSHING 2

Date/Time	Description	Logged Data / Ack
05-Mar-2017 04:33:10	PUW BATCH NO	2017-03-05T04:33:03
05-Mar-2017 04:33:10	PUW TOTAL VOLUME : 92-FI-901504	153 L

Operation Steps : SPINNING AFTER CLEANING

Date/Time	Description	Logged Data / Ack
05-Mar-2017 04:36:43	SPINNING SPEED	399 RPM
05-Mar-2017 04:36:43	SPINNING TIME	3

Operation Steps : CLEANING END

Date/Time	Description	Logged Data / Ack
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05-Mar-2017 04:45:02	MANUAL CLEANING MONITOR TIME	1.37
05-Mar-2017 04:46:15	CE92190 CLEAN AND READY	YES ROS4 RRAL MBAA

SECTION 12 CENTRIFUGE-KG

UNIT : CE92190KG

Operation : CE92190KG LOT-1

Operation Steps : 5-ASA DRUM 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:21:44	WEIGHT IN DRUM 1	46.45 kg

Operation Steps : 5-ASA DRUM 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:21:44	WEIGHT IN DRUM 2	69.45 kg

Operation Steps : 5-ASA DRUM 3

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:21:44	WEIGHT IN DRUM 3	63.35 kg

Operation Steps : 5-ASA DRUM 4

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:21:44	WEIGHT IN DRUM 4	88.9 kg

Operation Steps : 5-ASA WET WEIGHT

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:21:44	5-ASA WET WEIGHT	268.15 kg

Operation Steps : LOD PERCENTAGE

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:25:59	LOD PERCENTAGE SAMPLE 1	85.05 %
04-Mar-2017 17:27:12	LOD PERCENTAGE SAMPLE 2	84.69 %
04-Mar-2017 17:27:23	AVERAGE LOD PERCENTAGE	84.9 %

Operation Steps : 5-ASA DRY WEIGHT

Date/Time	Description	Logged Data / Ack
04-Mar-2017 17:30:40	5-ASA DRY WEIGHT	227.7 kg

Operation : CE92190KG LOT-2

Operation Steps : 5-ASA DRUM 1

Date/Time	Description	Logged Data / Ack
04-Mar-2017 22:25:19	WEIGHT IN DRUM 1	86.1 kg

Operation Steps : 5-ASA DRUM 2

Date/Time	Description	Logged Data / Ack
04-Mar-2017 22:25:19	WEIGHT IN DRUM 2	76.45 kg

Operation Steps : 5-ASA DRUM 3

Date/Time	Description	Logged Data / Ack
04-Mar-2017 22:25:19	WEIGHT IN DRUM 3	50.55 kg

Operation Steps : 5-ASA DRUM 4

Date/Time	Description	Logged Data / Ack
04-Mar-2017 22:25:19	WEIGHT IN DRUM 4	26.75 kg

Operation Steps : 5-ASA WET WEIGHT

Date/Time	Description	Logged Data / Ack
04-Mar-2017 22:25:19	5-ASA WET WEIGHT	239.85 kg

Operation Steps : LOD PERCENTAGE

Date/Time	Description	Logged Data / Ack
05-Mar-2017 01:59:41	LOD PERCENTAGE SAMPLE 1	84.55 %
05-Mar-2017 02:01:19	LOD PERCENTAGE SAMPLE 2	83.67 %
05-Mar-2017 02:01:30	AVERAGE LOD PERCENTAGE	84.1 %

Operation Steps : 5-ASA DRY WEIGHT

Date/Time	Description	Logged Data / Ack
05-Mar-2017 02:03:04	5-ASA DRY WEIGHT	201.7 kg

Operation : CE92190KG LOT-3

Operation Steps : 5-ASA DRUM 1

Date/Time	Description	Logged Data / Ack
05-Mar-2017 04:48:09	WEIGHT IN DRUM 1	46.2 kg

Operation Steps : 5-ASA DRUM 2

Date/Time	Description	Logged Data / Ack
05-Mar-2017 04:48:09	WEIGHT IN DRUM 2	70.75 kg

Operation Steps : 5-ASA WET WEIGHT

Date/Time	Description	Logged Data / Ack
05-Mar-2017 04:48:09	5-ASA WET WEIGHT	116.95 kg

Operation Steps : LOD PERCENTAGE

Date/Time	Description	Logged Data / Ack
05-Mar-2017 10:09:43	LOD PERCENTAGE SAMPLE 1	83.99 %
05-Mar-2017 10:10:30	LOD PERCENTAGE SAMPLE 2	84.07 %
05-Mar-2017 10:10:42	AVERAGE LOD PERCENTAGE	84 %

Operation Steps : 5-ASA DRY WEIGHT

Date/Time	Description	Logged Data / Ack
05-Mar-2017 10:12:21	5-ASA DRY WEIGHT	98.2 kg

Operation Steps : TOTAL 5-ASA WET WEIGHT

Date/Time	Description	Logged Data / Ack
05-Mar-2017 10:22:17	TOTAL 5-ASA WET WEIGHT	624.95 kg

Operation Steps : TOTAL 5-ASA DRY WEIGHT

Date/Time	Description	Logged Data / Ack
05-Mar-2017 10:22:17	TOTAL 5-ASA DRY WEIGHT	1055.2 kg

Operation Steps : FINAL YEILD PERCENTAGE

Date/Time	Description	Logged Data / Ack
05-Mar-2017 10:22:17	FINAL YEILD PERCENTAGE	191.9 %

RAW MATERIAL DETAILS

RAW MATERIAL	EQUIPMENT NO	BATCH ID	QTY
27.7% NAOH	FT92402	FT-NAOH-11-16-007	1384.4 L
27.7% NAOH	RS92050	FT-NAOH-11-16-007	401.6 L
27.7% NAOH	RS92050	FT-NAOH-11-16-007	0 L
		TOTAL	1786.00 L
RAW MATERIAL	EQUIPMENT NO	BATCH ID	QTY
50% H2SO4	RS92400	FT-SUL-01-17-001	245.9 L
50% H2SO4	RG92173	FT-SUL-01-17-001	955.6 L
50% H2SO4	RG92173	FT-SUL-01-17-001	538 L
		TOTAL	1739.50 L
RAW MATERIAL	EQUIPMENT NO	BATCH ID	QTY
ASCORBIC ACID	RS92400	RM-16-0200 ROS6 RRAL MBAA	2 kg ROS6 RRAL MBAA
		TOTAL	2.00 g
RAW MATERIAL	EQUIPMENT NO	BATCH ID	QTY
SALICYLIC ACID	RS92050	RAS1630600 ROS7 GTE SAAP	502 kg ROS7 GTE SAAP
		TOTAL	502.00 L
RAW MATERIAL	EQUIPMENT NO	BATCH ID	QTY
SODIUM DITHIONITE	RS92400	49791488Q0 ROS7 GTE AJTA	1600 kg ROS6 GTE AJTA
		TOTAL	1600.00 kg
RAW MATERIAL	EQUIPMENT NO	BATCH ID	QTY
SODIUM EDTA	RS92400	RM-16-0092 ROS6 SATA SSPA	2 kg ROS6 SATA SSPA
		TOTAL	2.00 g
RAW MATERIAL	EQUIPMENT NO	BATCH ID	QTY
31% HCL	FT92101		
31% HCL	FT92101		
		TOTAL	
RAW MATERIAL	EQUIPMENT NO	BATCH ID	QTY
ANILINE	FT92002		
ANILINE	FT92002		
		TOTAL	

RAW MATERIAL	EQUIPMENT NO	BATCH ID	QTY
NANO2	FT92102		
NANO2	FT92102		
TOTAL			

Remarks / Observation :
