LIST OF ANNEXURES

S. No	Content	Annexure
1	List of Proposed Products & By-Prodcuts	Annexure - I
2	Site Plan	Annexure - II
3	Manufacturing Process Description	Annexure - III
4	Water Consumption Details	Annexure - IV
5	Solid & Hazardous Waste Generation And Disposal	Annexure -V
6	Stack Emission Details	Annexure - VI
7	Process Emission Details	Annexure -VII
8	List of Raw Materials	Annexure - VIII
9	Waste water Details	Annexure - IX
10	Consolidated Statement- Pollution Details	Annexure –X

ANNEXURE – I

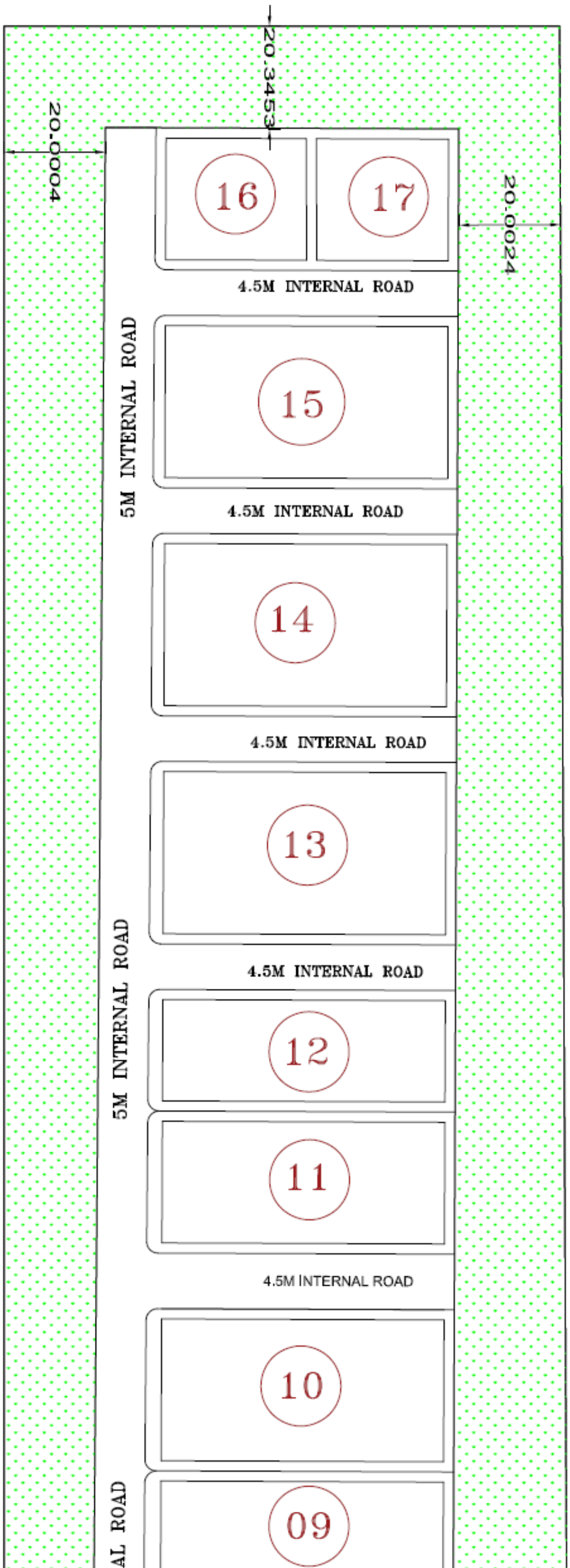
LIST OF PROPOSED PRODUCTS

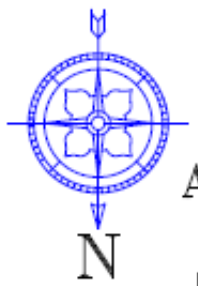
S. No	Name of the Product	CAS No	Thereputic Categeory	Quantity in Kg/Month
1	Atorvastatin Calcium Trihydrate	344423-98-9	Lipid-Lowering Agent	5000
2	Darunavir	206361-99-1	Antiretroviral	5000
3	Levetiracetam	102767-28-2	Anticonvulsant	10000
4	Montelukast Sodium	151767-02-1	Antasthmatic	10000
5	Tri Ethyl Ortho Formate	122-51-0	Drug Intermediate	20000
6	Di Cyclohexyl Carbo Di Imide	538-75-0	Drug Intermediate	20000
7	Curcumin	458-37-7	Anti-Inflammatory And Anti-Oxidant	5000
	Total			**75000.00**

LIST OF BY-PRODUCTS

S. No	Name of the Product	Name of the By-Product	Quantity in Kg/Batch	Quantity in Kg/Day
1	Darunavir	Isobutene	60.36	20.12
		1-Hydroxy-pyrrodiline-2,5-dione	107.60	35.86

SITE PLAN





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04	CANTEE
05	POWER
06	HT YAR
07	COAL Y
08	BOILER
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10	SOLVENT
11	WARE H
12	UTILITY
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15	MEE &
16	DRUMS
17	DISTILL

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ANNEXURE - III

MANUFACTURING PROCESS

ATORVASTATIN CALCIUM TRIHYDRATE

Process Description

Stage-1

(6-Cyanomethyl-2, 2-dimethyl- [1, 3] dioxan-4-yl)-acetic acid tert-butyl ester undergoes hydrogenation in presence of Raney Nickel and Methanol to give Stage-1 as product.

Stage-2

Stage-1 reacts with 4-(4-fluorophenyl)-2-isobutyryl-3 phenyl-4-oxo-N-phenyl-butyramide in presence of IPA and Cyclohexane to give Stage-2 as product.

Stage-3

Satge-2 undergoes hydrolysis in presence of aceto nitrile and IPA as solvent to give stage-3 as product.

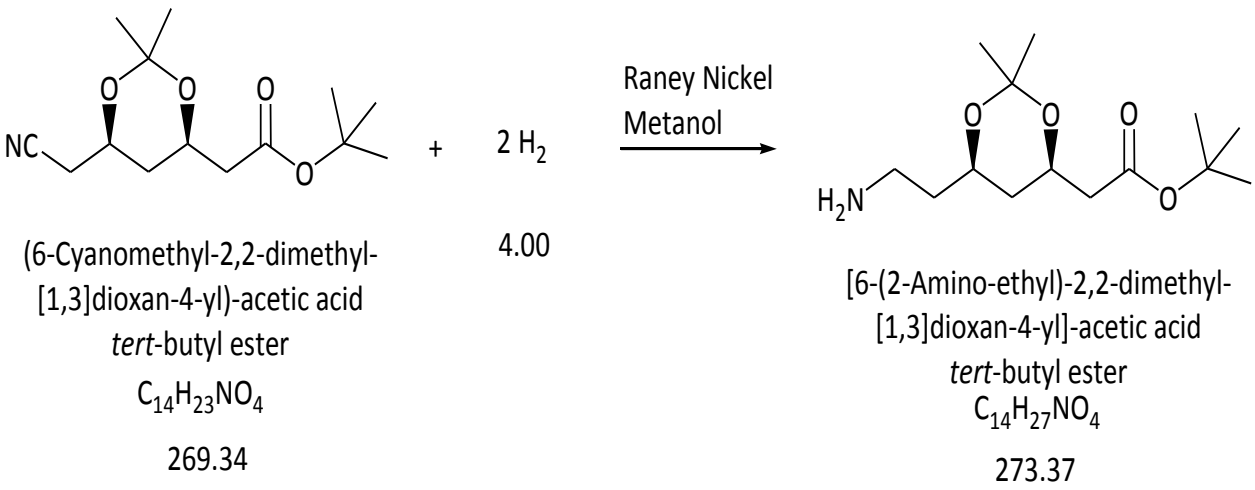
Sateg-4

Stage-3 product reacts with Calcium acetate in presence of Methanol and toluene to give Atorvatatin calcium Trihydrate

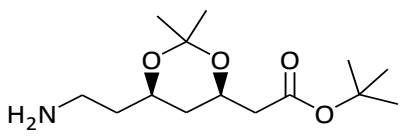
ATORVASTATIN CALCIUM TRIHYDRATE

Route of Synthesis

Stage-1



Stage-2

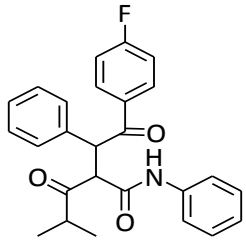


[6-(2-Amino-ethyl)-2,2-dimethyl-[1,3]dioxan-4-yl]-acetic acid *tert*-butyl ester

$C_{14}H_{27}NO_4$

273.37

+

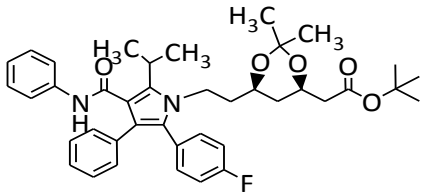


2-[2-(4-Fluoro-phenyl)-2-oxo-1-phenyl-ethyl]-4-methyl-3-oxo-pentanoic acid phenylamide

$C_{26}H_{24}FNO_3$

417.47

Cyclohexane
IPA →



(6-{2-[2-(4-Fluoro-phenyl)-5-isopropyl-3-phenyl-4-phenylcarbamoyl-pyrrol-1-yl]-ethyl}-2,2-dimethyl-[1,3]dioxan-4-yl)-acetic acid *tert*-butyl ester

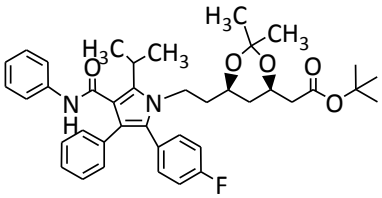
$C_{40}H_{47}FN_2O_5$

654.81

+ $2\ H_2O$

2X18=36.0

Stage-3



(6-{2-[2-(4-Fluoro-phenyl)-5-isopropyl-3-phenyl-4-phenylcarbamoyl-pyrrol-1-yl]-ethyl}-2,2-dimethyl-[1,3]dioxan-4-yl)-acetic acid *tert*-butyl ester

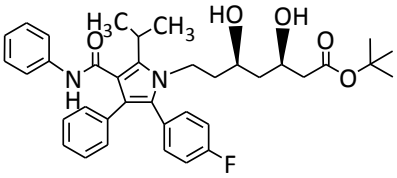
$C_{40}H_{47}FN_2O_5$

654.81

+ H_2O

18.0

Acetonitrile
IPA →



7-[2-(4-Fluoro-phenyl)-5-isopropyl-3-phenyl-4-phenylcarbamoyl-pyrrol-1-yl]-3,5-dihydroxy-heptanoic acid *tert*-butyl ester

$C_{37}H_{43}FN_2O_5$

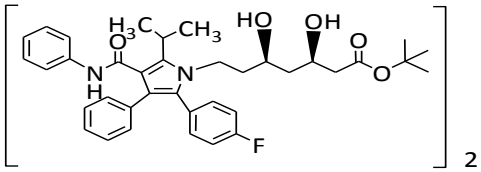
614.75

+

Acetone

58.08

Stage-4



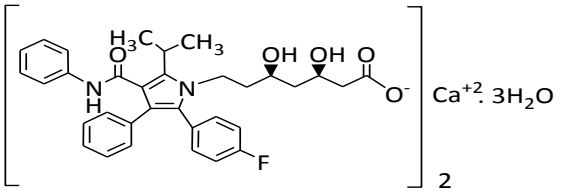
7-[2-(4-Fluoro-phenyl)-5-isopropyl-3-phenyl-4-phenylcarbamoyl-pyrrol-1-yl]-3,5-dihydroxy-heptanoic acid *tert*-butyl ester

$C_{37}H_{43}FN_2O_5$

2X614.75=1229.5

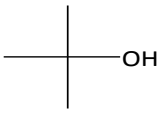
+ $Ca(COOCH_3)_2$ (158.17) + $3\ H_2O$ (54.0) + 2 NaOH (80)

Toluene
Methanol



Atorvastatin calcium trihydrate

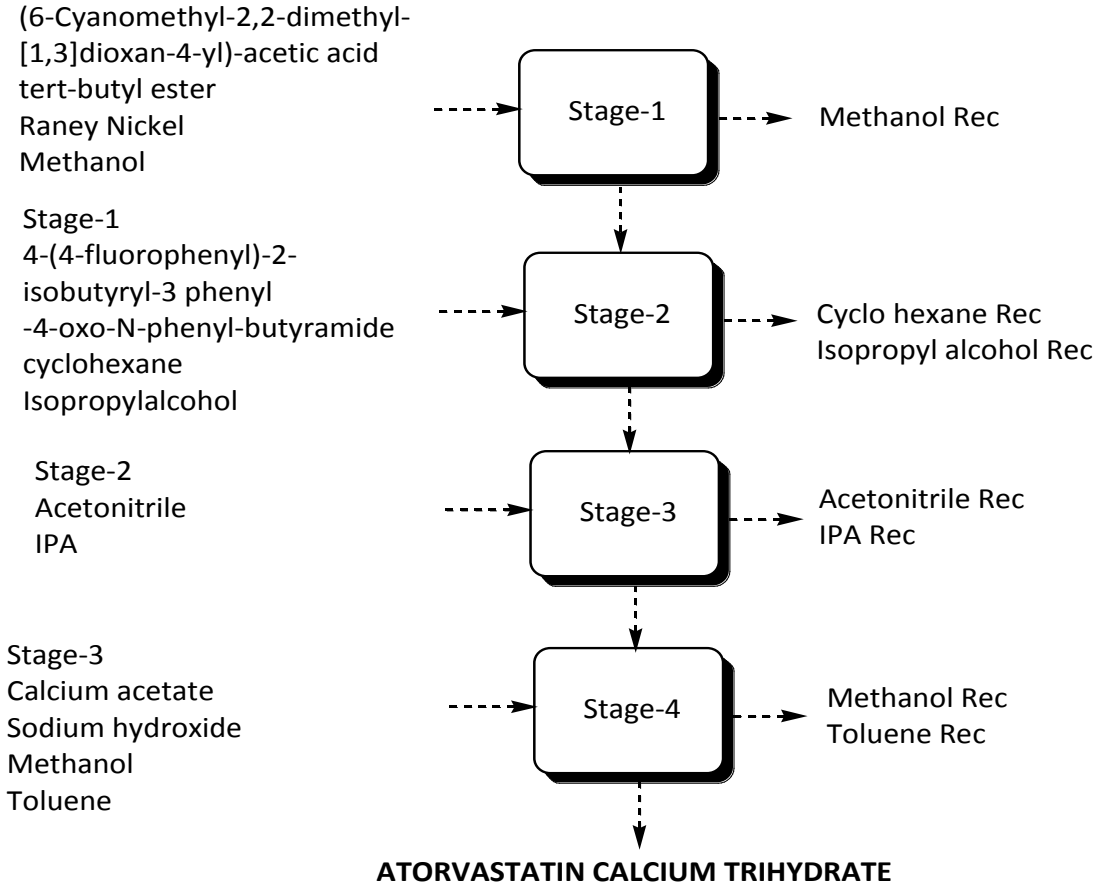
(1209.26)

$Ca^{+2}.\ 3H_2O$ + 2  + 2 CH_3COONa

2-Methyl-propan-2-ol
(148.24)

Sodium acetate
(164)

Flow Chart



ATORVASTATIN CALCIUM TRIHYDRATE

Material Balance:

Material balance of Atorvastatin calcium Trihydrate Stage-1 Batch Size: 500.00Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity In Kg
(6-Cyanomethyl-2,2-dimethyl- [1,3]dioxan-4-yl)-acetic acid tert-butyl ester	380.00		Stage-1	328.00
Hydrogen	5.65		Methanol Recovery	152.00
Raney Nickel	2.00		Methanol Loss	3.20
Methanol	160.00		Spent Nickel catalyst	2.00
			organic residue process residue -57.65 distillation residue-4.80 (Methanol)	62.45
Total	547.65		Total	547.65

Material balance of Atorvastatin calcium Trihydrate Stage-2 Batch Size: 500.00Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity In Kg
Stage-1	328.00		Stage-2	684.00
4-(4-fluorophenyl)-2-isobutyryl-3 phenyl -4-oxo-N-phenyl-butyramide	500.90		Generated water	43.20
cyclohexane	200.00		Cyclohexane Recovery	190.00
Isopropylalcohol	150.00		Cyclohexane Loss	4.00
			Isopropylalcohol Recovery	142.50
			Isopropylalcohol Loss	3.00
			Organic residue process residue -101.70 Distillation residue -10.5 (Cyclohexane-6, Isopropylalcohol-4.5)	112.20
Total	1178.9		Total	1178.9

Material balance of Atorvastatin calcium Trihydrate Stage-3 Batch Size: 500.0Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity In Kg
Stage-2	684.00		Stage-3	565.00
Acetonitrile	300.00		Acetonitrile Recovery	285.00
IPA	200.00		Acetonitrile Loss	6.00
Water	2000.00		IPA Recovery	190.00
			IPA Loss	4.00
			Effluent water	2046.86

			(water-1981.20,Acetone-60.66,Acetonitrile-3, IPA-2)	
			Organic Residue Process residue-77.14 Distillation residue -10.00 (IPA-4,Acetonitrile-6)	87.14
Total	3184.00		Total	3184.00

Material balance of Atorvastatin calcium Trihydrate Stage-4 Batch Size: 500.0Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity In Kg
Stage-3	565.00		Atorvastatin calcium Trihydrate	500.00
Calcium acetate	72.70		Methanol Recovery	285.00
Sodium hydroxide	36.77		Methanol Loss	6.00
Methanol	300.00		Toluene Recovery	190.00
Toluene	200.00		Toluene Loss	4.00
Activated carbon	5.00		Effluent water	2055.54
Hyflow	3.00		(water-1975.18 sodium acetate -75.36, (Methanol-3, Toluene-2)	
Water	2000.00		Spent carbon & Hyflow	8.00
			Organic residue	133.93
			process residue -123.93, (2-Methyl-propan-2-ol -68.12 ,Organic impurities -55.81) Distillation residue -10 (Toluene-4, methanol -6)	
Total	3182.47		Total	3182.47

DARUNAVIR

Process Description:

Stage-1

(2S,3S)-1,2-epoxy-(BOC amino)-4-Phenyl butane reacts with isobutyl amine in the presence of IPA as solvent media to get as Stage-1 as product.

Stage-2

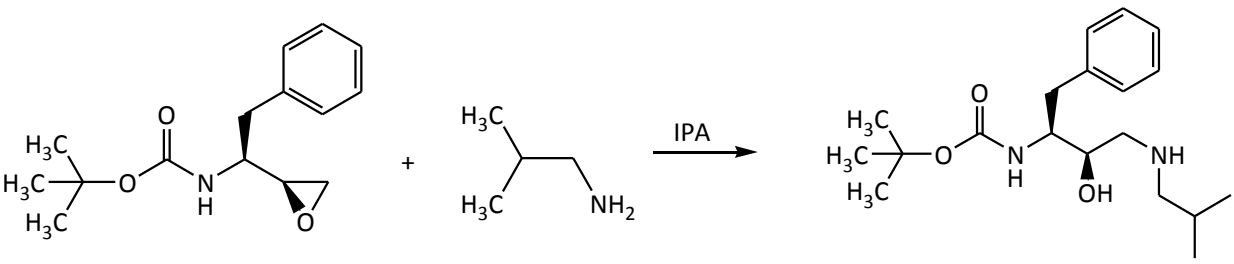
Stage-1 reacts with 4-acetylaminobenzene sulfonyl chloride in the presence of sodium bicarbonate and acidified with Sulfuric acid to get Stage-2 as product.

Stage-3

Stage-2 product reacts with 1-([[(3R,3As,6Ar)-Hexahydrofuro[2,3-b]furan-3-yloxy]carbonyl]oxy)-2,5-pyrrolidinedione in the presence of Ethyl acetate as solvent media to get Darunavir as product.

Route of Synthesis:

Stage-1:

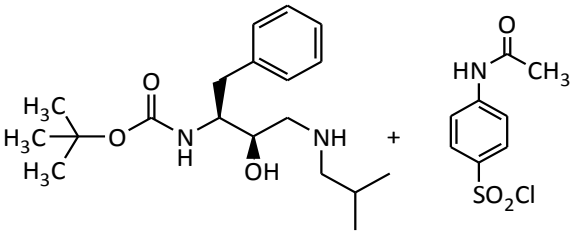


(2S,3S)-1,2-Epoxy-(BOC Amino) -4-Phenyl butane
$C_{15}H_{21}NO_3$
263.33

Isobutylamine
$C_4H_{11}N$
73.14

N-[2R,3S)-3-Tert butoxycrbonyl amino-2-hydroxy-4-phenyl butyl]-isobutylamine
$C_{19}H_{32}N_2O_3$
336.47

Stage-2:

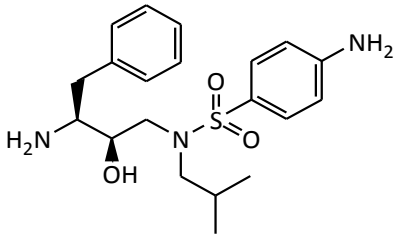


N-[2R,3S)-3-Tert butoxycrbonyl amino-2-hydroxy-4-phenyl butyl] -isobutylamine
$C_{19}H_{32}N_2O_3$
336.47

4-Acetylamino-benzene sulfonyl chloride
$C_8H_8ClNO_3S$
233.67

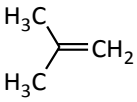
+ $NaHCO_3$ (Sodium bicarbonate, 84.01) + $5H_2SO_4$ (Sulphuric acid, 5X98.08=490.4) + 7.5NaOH (Sodium hydroxide, 7.5X40=300) + $2.5NH_4OH$ (2.5X35.05=87.62)

Ethyl acetate
Methanol
MDC

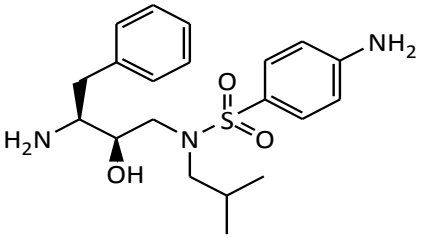


N-[(2R,3S)-3-Tert butoxycarbonylamino-2-hydroxy-4-phenyl butyl]-isobutylamine
$C_{20}H_{29}N_3O_3S$
391.53

+ NaCl (Sodium chloride, 58.44) + 10 H_2O (10X18=180.0) + $3.75Na_2SO_4$ (Sodium sulphate, 3.75X142.04=532.65)

+  (Isobutene, 56.11) + CH_3COOH (Acetic acid, 60.05) + 1.25 $(NH_4)_2SO_4$ (Ammonium sulphate, 1.25X132.14=165.17) + 2 CO_2 ↑ (Carbon dioxide, 2X44=88.0)

Stage-3:

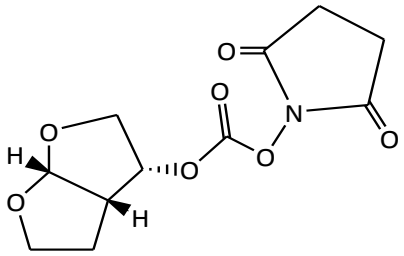


N-[(2R,3S)-3-Tert butoxycarbonylamino-2-hydroxy-4-phenyl butyl]-isobutylamine

$C_{20}H_{29}N_3O_3S$

391.53

+



1-([[3R,3As,6Ar)-hexahydrofuro[2,3-b] furan-3-yloxy]carbonyl]-oxy)-2,5-pyrrolidinedione

$C_{11}H_{13}NO_7$

271.22

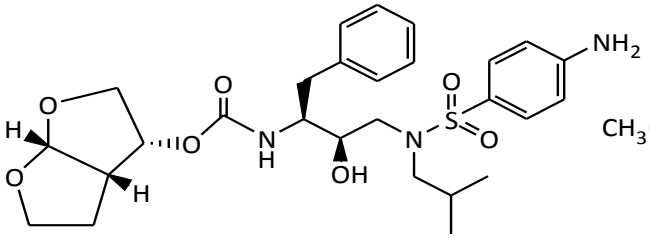
+

CH_3CH_2OH

Ethanol

46.07

Ethyl acetate



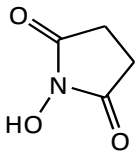
CH_3CH_2OH

Darunavir

$C_{27}H_{37}N_3O_7S.C_2H_6O$

593.70

+

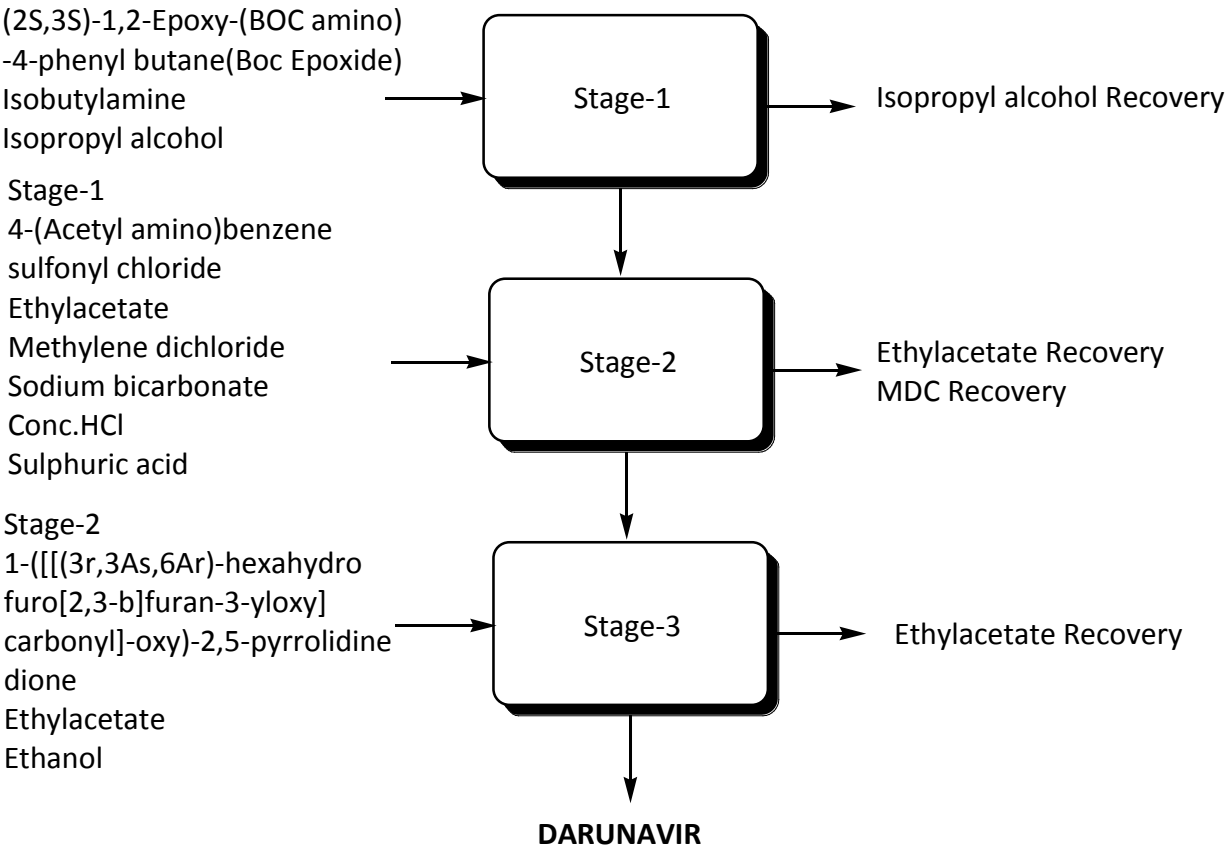


1-Hydroxy-pyrrolidine -2,5-dione

$C_4H_5NO_3$

115.10

Flow Chart:



Material Balance:

Material Balance of Darunavir Stage-1 Batch Size: 500.00Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
2S,3S)-1,2-Epoxy-(BOC Amino)-4-Phenyl butane	329.00		Stage-1	362.00
Isobutylamine	91.37		Isopropyl alcohol Recovery	285.00
Isopropyl alcohol	300.00		Isopropyl alcohol Loss	6.00
Water	2000.00		Effluent water	2000.00
			(Water-2000)	0
			Organic Residue Process residue -58.37 Distillation residue-9 (IPA)	67.37
Total	2720.37		Total	2720.37

Material Balance of Darunavir Stage-2 Batch Size: 10.0Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Stage-1	362.00		Stage-2	366.00
4-(Acetyl amino)benzene sulfonyl chloride	251.40		Ethylacetate Recovery	380.00
Ethylacetate	400.00		Ethylacetate Loss	8.00
Methylene dichloride	500.00		Methylene dichloride Recovery	475.00
Methanol	400.00		Methlene dichloride Loss	10.00
Sodium hydroxide	322.76		Methanol Recovery	380.00
Sodium bicarbonate	90.38		Methanol Loss	8.00
Ammonium hydroxide	94.26		Effluent water	2506.82
Sulphuric acid	527.60		(Water-2000,Sodium chloride-62.87,Generated water-193.65, Acetic acid-64.60,Ammonium sulphate-177.70,Ethyl acetate-4,Methanol-4)	
Activated carbon	10.00		Spent Carbon & hyflow	15.00
Hyflow	5.00		Byproduct	
Water	2000.00		(Isobutene)	60.36
			Inorganic Residue	573.06
			(Sodium sulphate)	0
			Process Emissions	94.67
			(Carbon dioxide)	
			Organic Residue Process residue-55.49 Distillation residue -31 (Ethyl acetate-8,Methanol-8, MDC-15)	86.49
Total	4963.4		Total	4963.4

Material Balance of Darunavir Stage-3 Batch Size: 500.00Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Stage-2	366.00		Darunavir	500.00
1-([[(3r,3As,6Ar)-hexahydro furo[2,3-b]furan-3-yloxy] carbonyl]-oxy)-2,5-pyrrolidine dione	253.54		Ethylacetate Recovery	380.00
Ethylacetate	400.00		Ethylacetate Loss	8.00
Ethanol	43.07		Effluent water	2004.00
Water	2000.00		(Water-2000 Ethyl acetate-4)	
			Byproduct	107.60

			(1-Hydroxy-pyrrolidine-2,5-dione)	
			Organic Residue Process residue-55.01 Distillation residue –8 (Ethyl acetate)	63.01
Total	3062.61		Total	3062.61

LEVETIRACETAM

Process Description

Stage-1

2-Aminobuytramide HCl is reacted with 4-chlorobutyrl chloride and potassium carbonate in the presence of Acetone and Di isopropyl ether as solvent media to give Stage-1 as product.

Stage-2

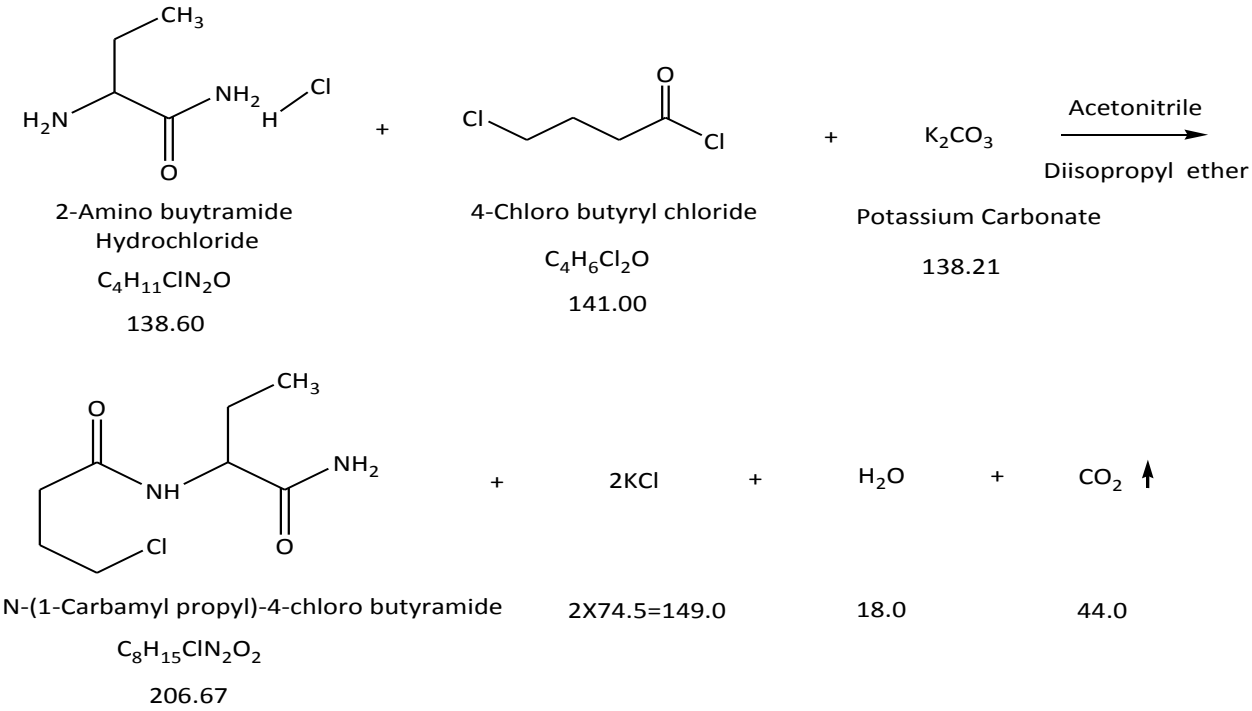
Stage-1 product reacts with Potassium hydroxide in MDC and Ethyl acetate as solvent media to giveStage-2 as product.

Stage-3

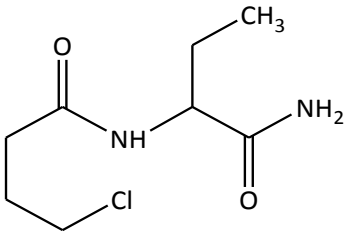
Stage-2 product undergoes purification with Ethyl acetate and Acetone to get Levetiracetam as product.

Route of Synthesis:

Stage-1



Stage-2

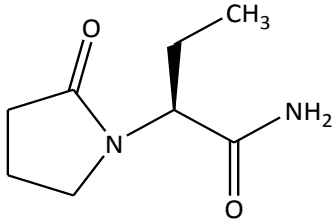


N-(1-Carbamyl propyl)-
4-chloro butyramide
$C_8H_{15}ClN_2O_2$
206.67

+ KOH

Potassium Hydroxide
56.11

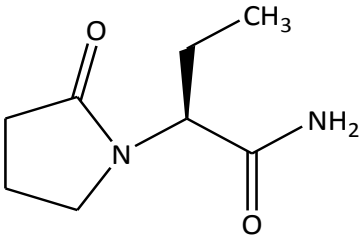
MDC
Ethyl acetate



Levetiracetam
$C_8H_{14}N_2O_2$
170.21

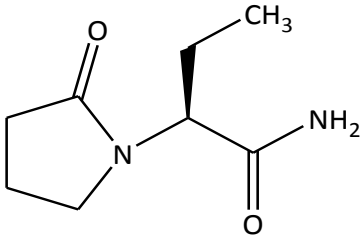
+ KCl + H_2O
74.55 18.0

Stage-3



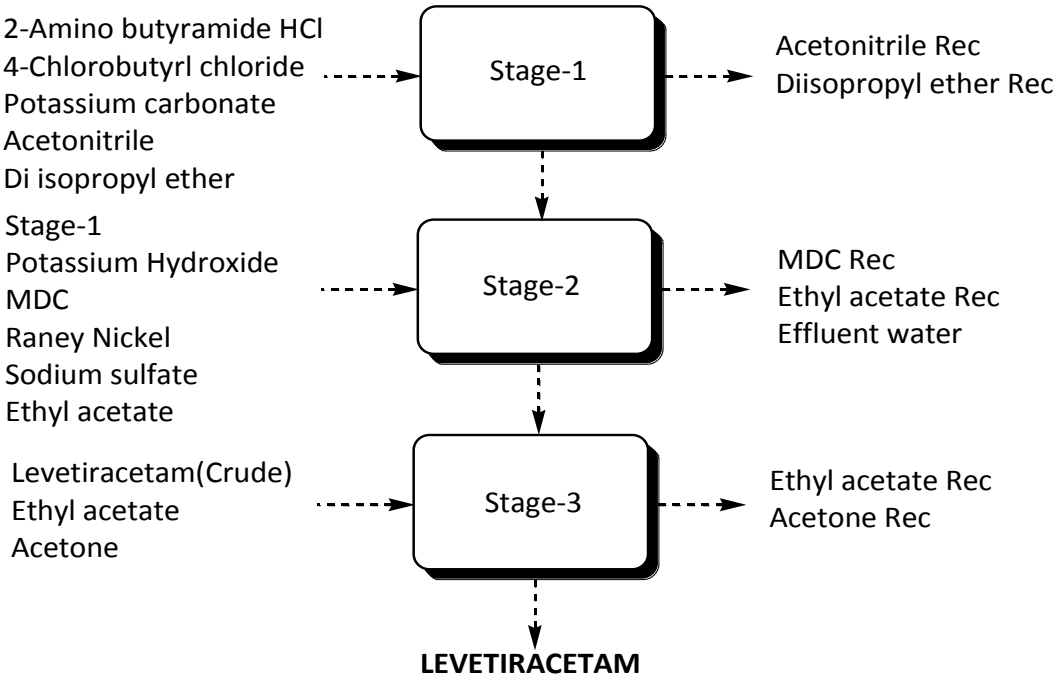
Levetiracetam (crude)
$C_8H_{14}N_2O_2$
170.21

Acetone
Ethyl Acetate



Levetiracetam (Pure)
$C_8H_{14}N_2O_2$
170.21

Flow Chart:



LEVETIRACETAM

Material Balance:

Material Balance of Levetiracetam Stage-1 Batch Size: 500.0 Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
2-Amino butyramide HCl	605.00		Stage-1	785.00
4-Chlorobutyrl chloride	615.48		Acetonitrile Recovery	380.00
Potassium carbonate	603.30		Acetonitrile Loss	8.00
Acetonitrile	400.00		Di isopropyl ether Recovery	380.00
Di isopropyl ether	400.00		Di isopropyl ether Loss	8.00
Water	2000.00		Effluent water	2082.57
			(Water-2000,generated water-78.57,Acetonitrile-4)	
			Process Emission (Carbon dioxide)	192.06
			Inorganic solid waste Potassium chloride-650.40	650.40
			Organic Residue Process residue -117.75 Distillation residue -20 Acetonitrile-8, Di isopropyl ether-12)	137.75
Total	4623.78		Total	4623.78

Material Balance of Levetiracetam Stage-2 Batch Size: 500.0 Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Stage-1	785.00		Levetiracetam(Crude)	556.00
Potassium Hydroxide	213.12		MDC Recovery	380.00
MDC	400.00		MDC Loss	8.00
Raney Nickel	5.00		Ethyl acetate Recovery	380.00
Sodium sulfate	20.00		Ethyl acetate Loss	8.00
Ethyl acetate	400.00		Effluent water	2092.37
Activated carbon	10.00		(Water-2000,generated water-68.37, Sodium Sulfate-20Ethyl acetate-4)	
Water	2000.00		inorganic solid waste Potassium Chloride-283.17	283.17
			Spent Nickel catalyst	5.00
			Spent carbon	10.00

			Organic Residue process residue -90.58 Distillation residue-20 (MDC-12,Ethyl acetate-8)	110.58
Total	3833.12		Total	3833.12

Material Balance of Levetiracetam Stage-3 Batch Size: 500.0 Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Levetiracetam(Crude)	556.00		Levetiracetam(Pure)	500.00
Ethyl acetate	400.00		Acetone Recovery	380.00
Acetone	500.00		Acetone Loss	8.00
			Ethyl acetate Recovery	475.00
			Ethyl acetate Loss	10.00
			Organic Residue Process Residue -56 Distillation residue -27.00 (,Acetone-12,Ethyl Acetate-15)	83.00
Total	1456.00		Total	1456.00

MONTELUKAST SODIUM

Process Description:

Stage-1:

7-Chloro Quinaldehyde is reacted with Isopthalaldehyde and acetic anhydride in the presence of methanol as solvent media to give stage-1 as product.

Stage-2:

Stage-1 is reacted with vinyl magnesium bromide in tetra hydro furan in the presence of toluene as solvent media to give stage-2 as product.

Stage-3:

Stage-2 is reacted with 1-(2-Iodo-phenyl)-ethanone and Hydrogen in presence of Aceto nitrile to give stage-3 as product

.**Stage-4:**

Stage-3 is reacted with Methyl magnesium chloride and hydrochloric acid in the presence of isopropyl ether to give Stage-4 as product.

Stage-5:

Stage-4 is reacted with Methane sulfonyl chloride in the presence of Diisopropylamine, Toluene as solvent media to give Stage-5 as product.

Stage-6:

Stage-5 is reacted with (1-Mercaptomethyl cyclopropyl) acetic acid in the presence of Tetra hydro furan and ethyl acetate as solvent media to give Stage-6 as product.

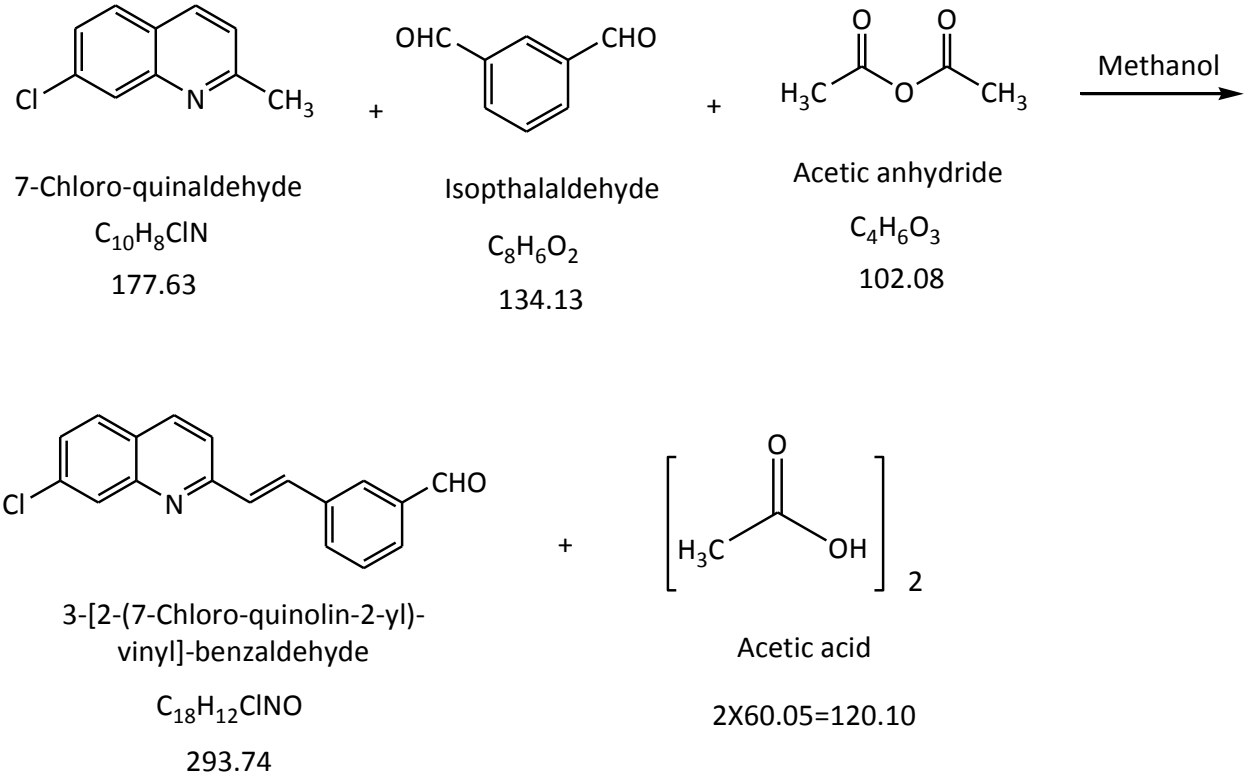
Stage-7:

Stage-6 is reacted with Sodium hydroxide in the presence of Toluene as solvent media to give Montelukast sodium as product.

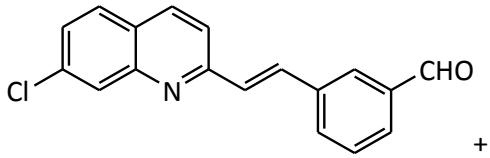
MONTELUKAST SODIUM

Route of synthesis:

Stage-1:



Stage-2:

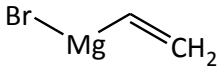


3-[2-(7-Chloro-quinolin-2-yl)-vinyl]-benzaldehyde

$C_{18}H_{12}ClNO$

293.74

+



Vinyl magnesium bromide

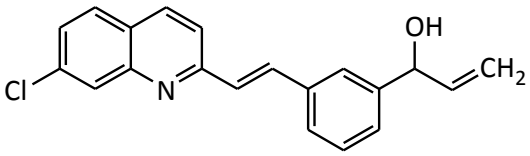
C_2H_3BrMg

131.25

+ H_2O

18.00

Toluene →



1-{3-[2-(7-Chloro-quinolin-2-yl)-vinyl]-phenyl}-prop-2-en-1-ol

$C_{20}H_{16}ClNO$

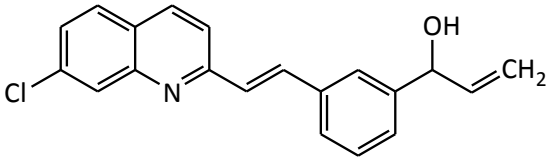
321.80

+ Mg(OH)Br

Magnesium hydroxy bromide

121.21

Stage-3:

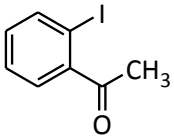


1-{3-[2-(7-Chloro-quinolin-2-yl)-vinyl]-phenyl}-prop-2-en-1-ol

$C_{20}H_{16}ClNO$

321.80

+



1-(2-Iodo-phenyl)-ethanone

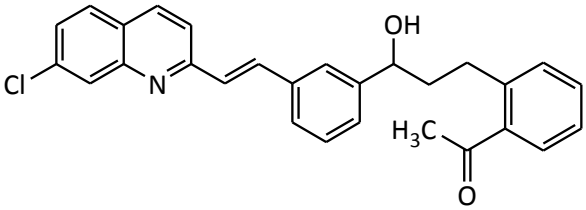
C_8H_7IO

246.05

+ H_2

2.00

pd/C →
Acetonitrile



1-[2-(3-{3-[2-(7-Chloro-quinolin-2-yl)-vinyl]-phenyl}-3-hydroxy-propyl)-phenyl]-ethanone

$C_{28}H_{24}ClNO_2$

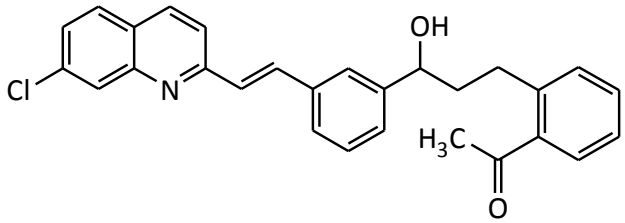
441.95

+ HI

Hydrogen iodide

127.91

Stage-4:

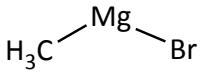


1-[2-(3-{3-[2-(7-Chloro-quinolin-2-yl)-vinyl]-phenyl}-3-hydroxy-propyl)-phenyl]-ethanone

$C_{28}H_{24}ClNO_2$

441.95

+



Methyl magnesium Bromide

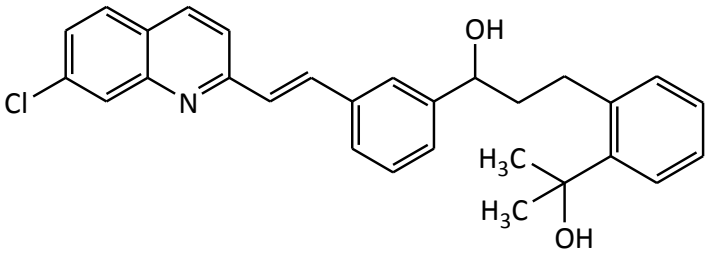
119.24

+

H_2O

18.02

Isopropyl ether
t-Butanol

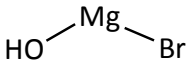


1-{3-[2-(7-Chloro-quinolin-2-yl)-vinyl]-phenyl}-3-[2-(1-hydroxy-1-methyl-ethyl)-phenyl]-propan-1-ol

$C_{29}H_{28}ClNO_2$

457.99

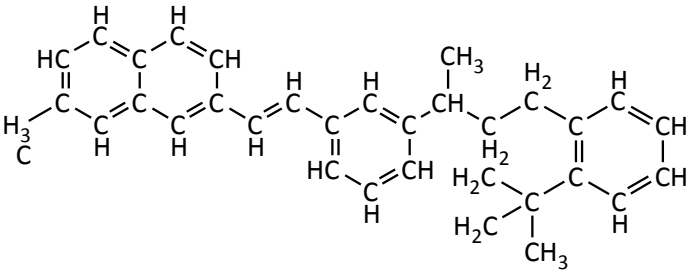
+



Magnesium hydroxy bromide

121.22

Stage-5:



1-{3-[2-(7-Chloro-quinolin-2-yl)-vinyl]-phenyl}-3-[2-(1-hydroxy-1-methyl-ethyl)-phenyl]-propan-1-ol

CH_4

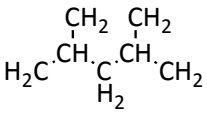
457.99

+ CH_4

Methane sulfonyl chloride

114.55

+

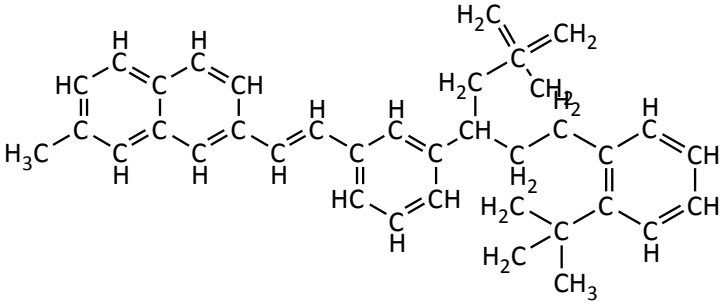


Diisopropylamine

CH_4

101.19

Toluene
Aceto nitrile

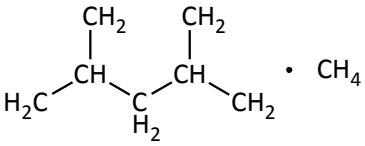


Methanesulfonic acid 1-{3-[2-(7-chloro-quinolin-2-yl)-vinyl]-phenyl}-3-[2-(1-hydroxy-1-methyl-ethyl)-phenyl]-propyl ester

CH_4

536.08

+

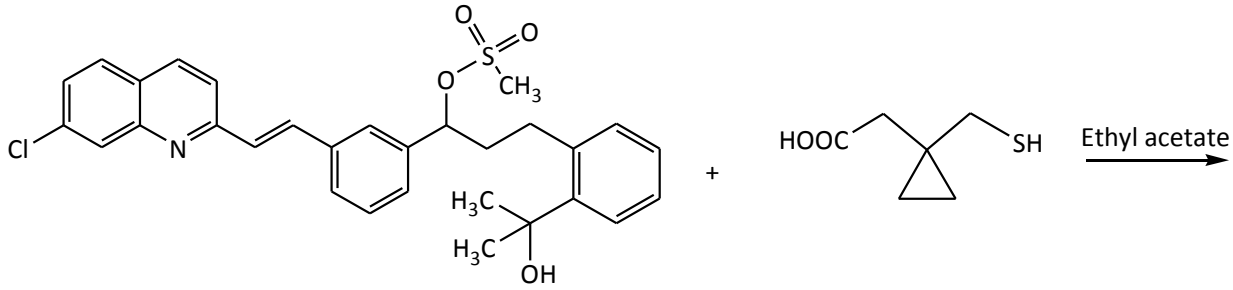


Diisopropylamine Hydrochloride

$C_6H_{14}N.HCl$

137.65

Stage-6:



Methanesulfonic acid 1-{3-[2-(7-chloro-quinolin-2-yl)-vinyl]-phenyl}-3-[2-(1-hydroxy-1-methyl-ethyl)-phenyl]-propyl ester

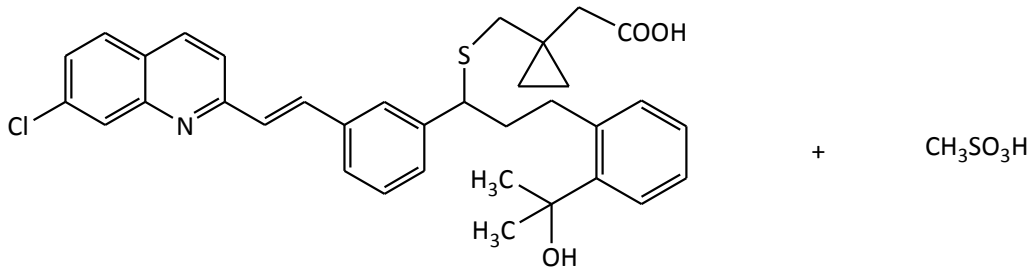
$C_{30}H_{30}ClNO_4S$

536.08

(1-Mercaptomethyl cyclopropyl) acetic acid

$C_6H_{10}O_2S$

146.20



(1-{1-{3-[2-(7-Chloro-quinolin-2-yl)-vinyl]-phenyl}-3-[2-(1-hydroxy-1-methyl-ethyl)-phenyl]-propylsulfanylmethyl}-cyclopropyl)-acetic acid

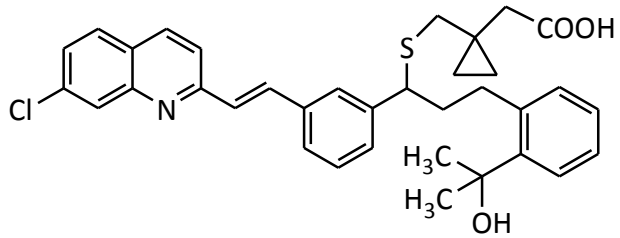
$C_{35}H_{36}ClNO_3S$

586.18

Methane sulfonic acid

96.10

Stage-7:



+ NaOH

Toluene →
Acetic acid
n-Hexane

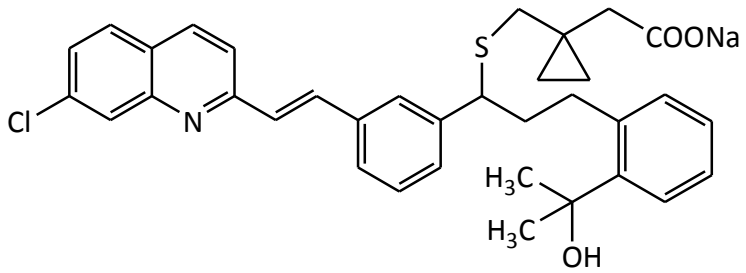
Montelukast

$C_{47}H_{59}ClN_2O_3S$

586.18

Sodium hydroxide

40.00



+ H_2O

18.00

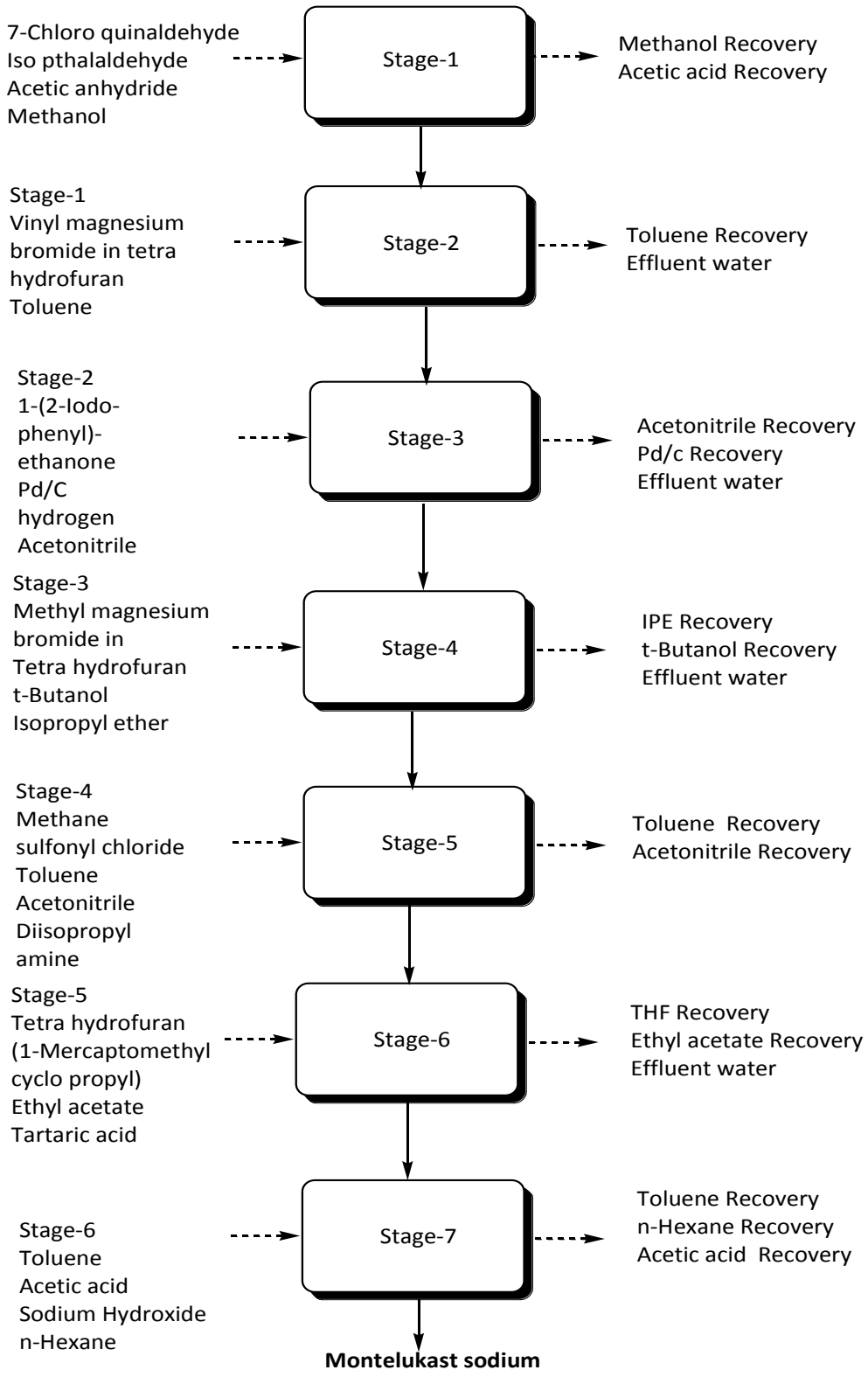
Montelukast sodium

$C_{35}H_{35}ClNNaO_3S$

608.16

MONTELUKAST SODIUM

Flowchart:



MONTELUKAST SODIUM

Material Balance:

Material Balance of Montelukast sodium Stage-1 Batch Size: 500.00Kgs				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
7-Chloro quinaldehyde	387.00		Stage-1	551.00
Iso pthalaldehyde	292.22		Methanol Recovery	190.00
Acetic anhydride	222.40		Methanol Loss	4.00
Methanol	200.00		Acetic acid Recovery	261.66
			Organic Residue	94.96
			Process residue-88.96 Distillation residue-6 (Methanol-6)	
Total	1101.62		Total	1101.62

Material Balance of Montelukast sodium Stage-2 Batch Size: 500.00 Kgs				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Stage-1	551.00		Stage-2	525.00
Vinyl magnesium bromide in tetra hydrofuran	546.20		Toluene Recovery	285.00
Toluene	300.00		Toluene Loss	6.00
Water	2000.00		Tetra hydrofuran Recovery	285.00
			Tetra hydrofuran Loss	6.00
			Effluent Water	1969.24
			(Water-1966.24,Toluene-3)	0
			Inorganic Solid waste Magnesium hydroxyl bromide-227.36)	227.36
			Organic Residue Process residue --78.60 Distillation residue-15 (Toluene-6,Tetra hydro furan-9)	93.60
Total	3397.20		Total	3397.20

Material Balance of Montelukast sodium Stage-3 Batch Size: 500.00Kgs				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Stage-2	525.00		Stage-3	613.00
1-(2-Iodo-phenyl)-ethanone	401.42		Acetonitrile recovery	285.00
Pd/C	1.00		Acetonitrile Loss	6.00
hydrogen	3.26		Pd/C Recovery	1.00
Acetonitrile	300.00		Effluent water	2211.67
Water	2000.00		(Water-2000 ,Hydrogen iodide-208.67,aceto nitrile-3)	
			Organic Residue process Residue-108.01 Distillation residue-6 (Acetonitrile)	114.01
Total	3230.68		Total	3230.68

Material Balance of Montelukast sodium Stage-4 Batch Size:500.00 Kgs				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Stage-3	613.00		Stage-4	546.00
Methyl magnesium bromide in Tetra hydrofuran	365.39		t-Butanol Recovery	47.50
t-Butanol	50.00		t-Butanol Loss	1.00
Isopropyl ether	300.00		Isopropyl ether Recovery	285.00
Water	2000.00		Isopropyl ether Loss	6.00
			Tetra hydro furan Recovery	190.00
			Tetra hydro furan Loss	4.00
			Effluent water	2000.00
			(Water-2000)	
			Inorganic solid waste Magnesium hydroxy bromide-168.24)	168.24
			Organic Residue Process Residue-64.15 Distillation residue-16.5 (IPE-9,t-Butanol-1.5, Tetra hydro furan-6)	80.65
Total	3328.39		Total	3328.39

Material Balance of Montelukast sodium Stage-5 Batch Size: 500.00 Kgs				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Stage-4	546.00		Stage-5	556.00
Methane sulfonyl chloride	136.56		Toluene Recovery	285.00
Toluene	300.00		Toluene Loss	6.00
Acetonitrile	300.00		Acetonitrile Recovery	285.00
Diisopropyl amine	120.63		Acetonitrile Loss	6.00
			Organic Residue Process Residue-247.19 (Di iso propyl amine Hydrochloride-164.10) Organic impurities-83.09 Distillation residue-18 (Toluene-9,Acetonitrile-9)	265.19
Total	1403.19		Total	1403.19

Material Balance of Montelukast sodium Stage-6 Batch Size: 500.00Kgs				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Stage-5	556.00		Stage-6	535.00
Tetra hydrofuran	400.00		Tetra hydrofuran Recovery	380.00
(1-Mercaptomethyl cyclo propyl)acetic acid	151.64		Tetra hydrofuran Loss	8.00
Ethyl acetate	300.00		Ethyl acetate Recovery	285.00
Tartaric acid	5.00		Ethyl acetate Loss	6.00
Water	2000.00		Effluent water	2107.67
			(water-2000, Methane sulfonic acid-99.67 Tartaric acid-5,Ethyl acetate-3)	
			organic residue Process residue-72.97, Distillation Residue-18 (Ethyl acetate-6,THF-12)	90.97
Total	3412.64		Total	3412.64

Material Balance of Montelukast sodium Stage-7 Batch Size:500.00 Kgs				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Stage-6	535.00		Montelukast sodium	500.00
Toluene	400.00		Toluene Recovery	380.00
Acetic acid	400.00		Toluene Loss	8.00
Sodium Hydroxide	36.50		n-Hexane Recovery	380.00
n-Hexane	400.00		n-Hexane Loss	8.00
Water	2000.00		Acetic acid Recovery	380.00
			Acetic acid Loss	8.00
			Effluent Water	2024.43
			(Water-2000,generated water-16.43, acetic acid - 4,Toluene-4)	
			Organic Residue Process Residue-55.07 Distillation Residue-28 (Toluene-8,n-Hexane-12,Acetic acid-8)	83.07
Total	3771.5		Total	3771.5

TRIETHYL ORTHOFORMATE

Process description:

Stage-1: chloroform reacts with Ethanol, Sodium hydroxide to give Tri ethyl ortho formate.

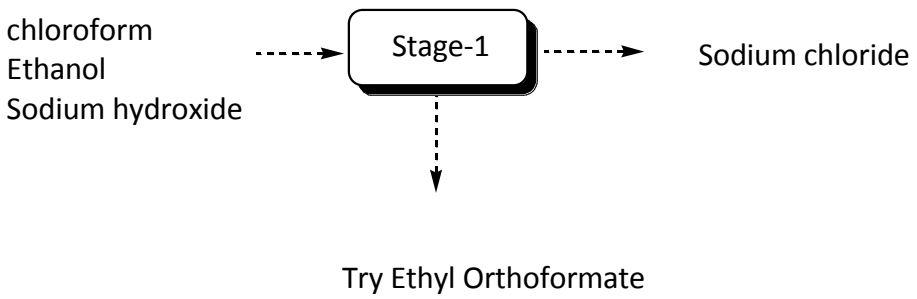
Route of synthesis:

Stage-1:

$$CHCl_3 + 3\,CH_3CH_2OH + 3\,NaOH \longrightarrow \left[CH(CH_3CH_2O)_3\right] + 3\,NaCl + 3\,H_2O$$

Chloroform	Ethanol	Sodium hydroxide	Tri ethyl orthoformate		
119.38	138.21	120	148.20	175.33	54.06

FLOW CHART:



Material Balance:

Material Balance of TRIETHYL ORTHOFORMATE stage-1 Batch Size:500.00Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
chloroform	448.00		Tri ethyl ortho formate	500.00
Ethanol	518.66		Inorganic solid with moisture (Sodium chloride)	860.83
Sodium hydroxide	450.32		Organic residue	56.15
			Process residue-56.15	
Total	1416.98		Total	1416.98

DICYCLO HEXYL CARBODIIMIDE

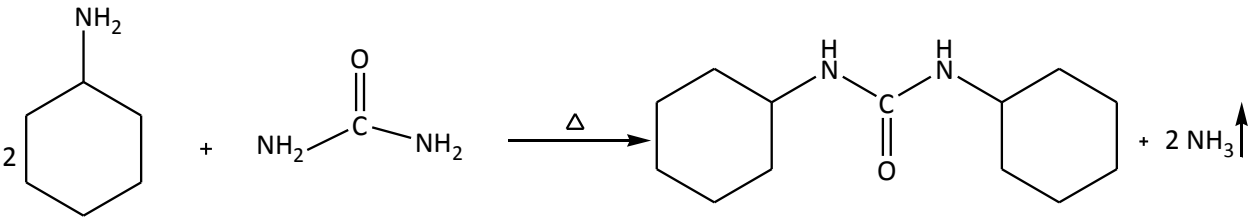
Process description:

Stage-1: Cyclo hexyl amine reacts with Urea and heated to reflux for 5-hrs to form stage-1 product.

Stage-2: Stage-1 product reacts with phosphorous oxy chloride in presence of EDC to form Dicyclo hexyl carbodiimide.

Route of synthesis:

Stage-1:



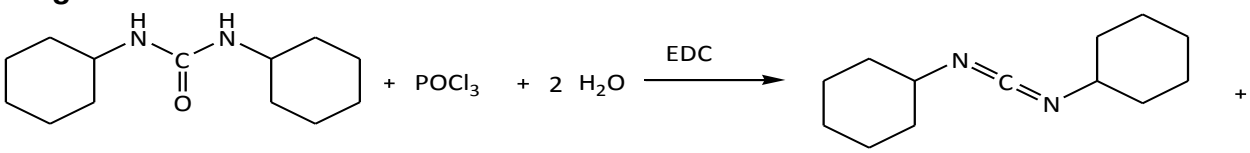
Cyclo hexylamine
$C_6H_{13}N$
198.34

Urea
CH_4N_2O
60.06

Dicyclohexyl Urea
$C_{13}H_{24}N_2O$
224.34

34.05

Stage-2:



Dicyclohexyl Urea
$C_{13}H_{24}N_2O$
224.34

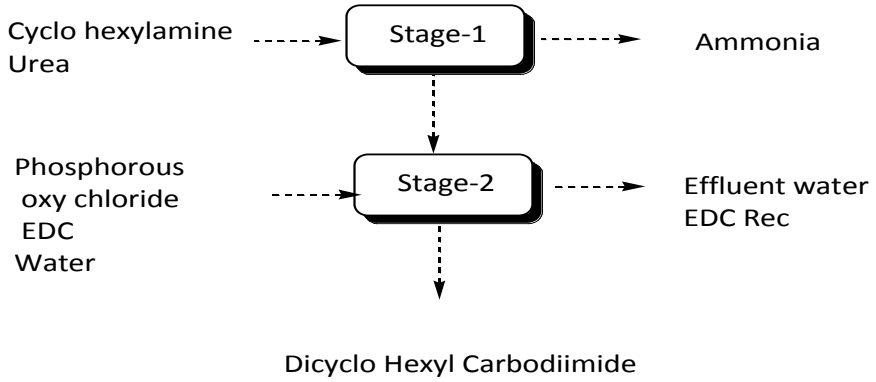
phosphrious oxychloride
153.33

36.02

Dicyclo hexyl carbodiimide
$C_{13}H_{22}N_2$
206.33

H_3PO_4 + 3 HCl ↑
98 109.38

FLOW CHART:



Material Balance:

Material Balance of Dicyclo Hexyl Carbodiimide stage-1 Batch Size:500.00Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Cyclo Hexyl amine	593.00		Stage-1	604.00
Urea	179.56		Process emission (Ammonia)	101.80
			Organic residue	66.76
			Process residue-66.76	
Total	772.56		Total	772.56

Material Balance of Dicyclo Hexyl Carbodiimide stage-2 Batch Size:500.00Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Stage-1	604.00		Dicyclohexyl carbodiimide	500.00
Phosphorous oxy chloride	412.81		EDC Recovery	285.00
EDC	300.00		EDC loss	6.00
Water	2500.00		Effluent water	2672.87
			(water-2403.03 Phosphoric acid-263.84, EDC-6)	
			Process emission (Hydrogen chloride)	294.48
			Organic residue	58.46
			Process residue-55.46 Distillation Residue-3 (EDC-3)	
Total	3816.81		Total	3816.81

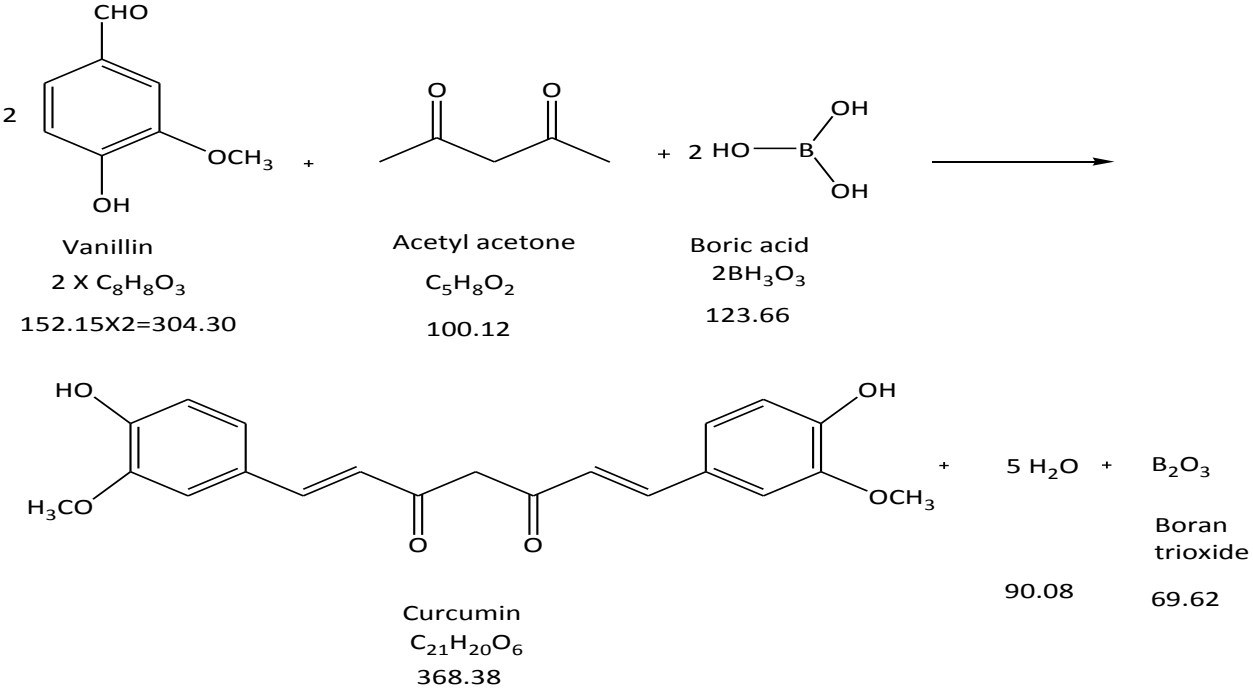
CURCUMIN

Process description:

Stage-1: Vanillin reacts with Acetyl acetone, Boric acid to give curcumin product.

Route of synthesis:

Stage-1:



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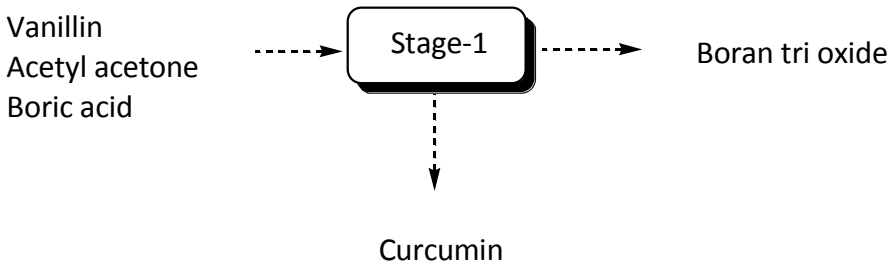

Material Balance:

Material Balance of curcumin stage-1 Batch Size:500.00Kg				
Name of the input	Quantity in Kg		Name of the out put	Quantity in Kg
Vanillin	459.00		curcumin	500.00
Acetyl acetone	151.01		Inorganic solid with moisture (Boran tri oxide)	240.88
Boric acid	186.52		Organic residue	55.65
			Process residue-55.65	
Total	796.53		Total	796.53

ANNEXURE – IV

WATER CONSUMPTION DETAILS

S. No.	Purpose	Water Requirement in KLD
1	Process	16
2	Floor & Reactor Washings	6
3	Boiler make up	23
4	Cooling towers make up	63
5	Domestic	4
6	Scrubber	4
7	Gardening	3
	Total	**119**

ANNEXURE -V

SOLID & HAZARDOUS WASTE GENERATION AND DISPOSAL

S. No	Name of the Hazardous Waste	Quantity Kg/Day	Disposal Method
1	Organic Solid Waste	1086	Sent to Cement Industries
2	Spent Carbon	12	
3	Solvent distillation residue	148	
4	Organic distillate from Stripper	166	
5	ETP Sludge	100	Sent to TSDF
6	MEE Salts	1306	
7	Inorganic solid waste	2305	
8	Used Oils	300 Ltrs/Annum	SPCB Authorized Agencies for Reprocessing/Recycling
9	Detoxified Container/liners	600 No's/Month	After Detoxification sent back to suppliers/sent to outside Parties
10	Used Lead Acid Batteries	4 No's /Annum	Sent back to suppliers on buyback basis
11	Fly ash from boiler	5600	Sent to Brick Manufacturers

ANNEXURE - VI

STACK EMISSION DETAILS FOR PROPOSED BOILER

Particulars	Units	4.0 TPH Coal fired Boiler
Type of Fuel	--	Indian Coal
Coal Consumption	TPD	16.00
Ash Content	%	35
Sulphur Content	%	0.5
Nitrogen Content	%	1.0
No. of Stacks	No	1
Height of the Stack	m	32
Diameter of Stack	M	0.6
Temperature of Flue Gas	oC	130
Velocity of Flue Gas	m/s	15
Particulate Matter	gm/sec	0.361
Sulphur dioxide emission	gm/sec	1.85
Oxides of Nitrogen emission	gm/sec	6.07

STACK EMISSION DETAILS FOR DG SET

DG Set No	Capacity In KVA	Emission of SPM in mg/Nm^3	Emission Of SO_2 in mg/Nm^3	Emission of NO_x in mg/Nm^3	Stack dia. In m	Flue Gas Temp. in ^oC	Stack Height in m	Flue gas Velocity In m/sec.
1	320 KVA	70	125	150	0.20	190	10	21
2	320 KVA	70	125	150	0.20	190	10	21

ANNEXURE -VII

PROCESS EMISSION DETAILS

S. No	Name of the Gas	Quantity in Kg/Day	Mitigation Method
1	Carbon dioxide	160	Dispersed into atmosphere
2	Ammonia	136	Scrubbed with Chilled water
3	Hydrogen chloride	393	Scrubbed with CS Lye

ANNEXURE - VIII

LIST OF RAW MATERIALS

1. ATORVASTATIN CALCIUM TRIHYDRATE

S. No.	Raw Material	Consumption/ Kgs per Batch	Consumption/ Kgs per Day
1	(6-Cyanomethyl-2,2-dimethyl- 1,3]dioxan-4-yl)-acetic acid tert-butyl ester	380.00	126.67
2	4-(4-fluorophenyl)-2-isobutyryl-3 phenyl -4-oxo-N-phenyl-butyramide	500.90	166.97
3	Acetonitrile	300.00	100.00
4	Activated carbon	5.00	1.67
5	Calcium acetate	72.70	24.23
6	cyclohexane	200.00	66.67
7	Hydrogen	5.65	1.88
8	Hyflow	3.00	1.00
9	IPA	200.00	66.67
10	Isopropylalcohol	150.00	50.00
11	Methanol	460.00	153.33
12	Raney Nickel	2.00	0.67
13	Sodium hydroxide	36.77	12.26
14	Toluene	200.00	66.67

2. DARUNAVIR

S. No.	Raw Material	Consumption/ Kgs per Batch	Consumption/ Kgs per Day
1	2S,3S)-1,2-Epoxy-(BOC Amino)-4-Phenyl butane	329.00	109.67
2	1-([[(3r,3As,6Ar)-hexahydro furo[2,3-b]furan-3-yloxy] carbonyl]-oxy)-2,5-pyrrolidine dione	253.54	84.51
3	4-(Acetyl amino)benzene sulfonyl chloride	251.40	83.80
4	Activated carbon	10.00	3.33
5	Ammonium hydroxide	94.26	31.42
6	Ethanol	43.07	14.36
7	Ethylacetate	800.00	266.67
8	Hyflow	5.00	1.67
9	Isobutylamine	91.37	30.46
10	Isopropyl alcohol	300.00	100.00
11	Methanol	400.00	133.33
12	Methylene dichloride	500.00	166.67
13	Sodium bicarbonate	90.38	30.13
14	Sodium hydroxide	322.76	107.59
15	Sulphuric acid	527.60	175.87

3. LEVETIRACETAM

S. No.	Raw Material	Consumption/ Kgs per Batch	Consumption/ Kgs per Day
1	2-Amino butyramide HCl	605.00	403.33
2	4-Chlorobutyrl chloride	615.48	410.32
3	Acetone	500.00	333.33
4	Acetonitrile	400.00	266.67
5	Activated carbon	10.00	6.67
6	Di isopropyl ether	400.00	266.67
7	Ethyl acetate	800.00	533.33
8	Levetiracetam(Crude)	556.00	370.67
9	MDC	400.00	266.67
10	Potassium carbonate	603.30	402.20
11	Potassium Hydroxide	213.12	142.08
12	Raney Nickel	5.00	3.33
13	Sodium sulfate	20.00	13.33

4. MONTELUKAST SODIUM

S. No.	Raw Material	Consumption/ Kgs per Batch	Consumption/ Kgs per Day
1	7-Chloro quinaldehyde	387.00	258.00
2	(1-Mercaptomethyl cyclo propyl)acetic acid	151.64	101.09
3	1-(2-Iodo-phenyl)-ethanone	401.42	267.61
4	Acetic acid	400.00	266.67
5	Acetic anhydride	222.40	148.27
6	Acetonitrile	600.00	400.00
7	Diisopropyl amine	120.63	80.42
8	Ethyl acetate	300.00	200.00
9	hydrogen	3.26	2.17
10	Iso pthalaldehyde	292.22	194.81
11	Isopropyl ether	300.00	200.00
12	Methane sulfonyl chloride	136.56	91.04
13	Methanol	200.00	133.33
14	Methyl magnesium bromide in Tetra hydrofuran	365.39	243.59
15	n-Hexane	400.00	266.67
16	Pd/C	1.00	0.67
17	Toluene	1000.00	666.67
18	Vinyl magnesium bromide in tetra hydrofuran	546.20	364.13

5. TRIETHYL ORTHOFORMATE

S. No.	Raw Material	Consumption/ Kgs per Batch	Consumption/ Kgs per Day
1	chloroform	448.00	597.33
2	Ethanol	518.66	691.55
3	Sodium hydroxide	450.32	600.43

6. DICYCLO HEXYL CARBODIIMIDE

S. No.	Raw Material	Consumption/ Kgs per Batch	Consumption/ Kgs per Day
1	Cyclo Hexyl amine	593.00	790.67
2	Urea	179.56	239.41
3	Phosphorous oxy chloride	412.81	550.41
4	EDC	300.00	400.00

7. CURCUMIN

S. No.	Raw Material	Consumption/ Kgs per Batch	Consumption/ Kgs per Day
1	Vanillin	459.00	153.00
2	Acetyl acetone	151.01	50.34
3	Boric acid	186.52	62.17

ANNEXURE – IX

WASTE WATER DETAILS

S. No	Purpose	Effluent Details KLD
1	Process	16.76
2	Washings	6
3	Boiler blow down	3
4	Cooling towers Bleed Off	6
5	Scrubbing system	4
6	Domestic	3.50
	Total	**39.26**

HTDS & LTDS EFFLUENT DETAILS AND DISPOSAL METHOD

S.No	Purpose	HTDS KLD	LTDS KLD	Disposal method
1	Process	7.27	9.49	ZLD System
2	Washings	0.00	6.00	
3	Boiler Blow down	0.00	3.00	
4	Cooling towers down	0.00	6.00	
5	Scrubbing system	4.00	0.00	
6	Domestic	0.00	3.50	
	Total	**11.27**	**27.99**	**39.26**

CONSOLIDATED STATEMENT- POLLUTION DETAILS

S. No.	Product Name	Production Capacity Kg/Month	Production Capacity Kg/Day	Batch Size	No of Batches	Per Day								
						Water Input	Water In effluent	Inorganics In Effleunt	Organics In Effluent	TDS	COD	HTDS	LTDS	Total Effluent
1	Atorvastatin Calcium Trihydrate	5000	166.67	500.00	10.00	1333.33	1318.79	0.00	48.67	0.00	71.01	0.00	1367.47	1367.47
2	Darunavir	5000	166.67	500.00	10.00	2000.00	2064.55	80.19	25.53	80.19	29.87	835.61	1334.67	2170.27
3	Levetiracetam	10000	333.33	500.00	20.00	2666.67	2764.63	13.33	5.33	13.33	9.01	1394.91	1388.38	2783.29
4	Montelukast Sodium	10000	333.33	500.00	20.00	6666.67	6655.11	139.11	80.91	139.11	58.54	1474.45	5400.69	6875.14
5	Tri Ethyl Ortho Formate	20000	666.67	500.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Di Cyclohexyl Carbo Di Imide	20000	666.67	500.00	40.00	3333.33	3204.04	351.79	8.00	351.79	16.48	3563.83	0.00	3563.83
7	Curcumin	5000	166.67	500.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**75000**	**2500.00**			**16000.00**	**16007.12**	**584.42**	**168.45**	**584.42**	**184.91**	**7268.79**	**9491.21**	**16760.00**

LIST OF ENCLOSURES

S. No	Content	Enclosures
1	Sale Agreement in local Language(Telugu)	Enclosure - I
2	Translated Copy of Sale Agreement in English with Notary	

भारतीय गैर न्यायिक

एक सौ रुपये Rs. 100

रु. 100 ONE HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

आंध्रप्रदेश आन्ध्र प्रदेश ANDHRA PRADESH

CH 826245

No. 932 Rs. 100/- Date. 25.1.2019

Purchased by: Ajay labs Private limited, Rep. by.

For Whom: Ajay Chand Ravi s/o Ravi Venu, Hyderabad

P Babu Khan

PATHAN BABU KHA
LICENSED STAMP VEND
OL.No.06-19-057/19
RL.No.06-19-006/20
VALID UP TO 31-12-2
14-17, NANDIGAMA-52
Phone No: 9849010

స్థిరాస్తి విక్రయ ఎగ్రిమెంటు

బిల్‌మక్తాగా రూ.40,20,000/-లు అక్షరాలా నలుబది లక్షల ఇరువది వేల రూపాయిలకు విక్రయించి వ్రాయించి యిచ్చిన స్థిరాస్తి విక్రయ ఎగ్రిమెంటు.

ది.27-01-2019, అక్షరాలా రెండు వేల పంతొమ్మిదవ సంవత్సరము, జనవరి నెల, ఇరువది ఏడవ తారీఖున.

వ్రాయించుకున్నవారు :

అజయ్ ల్యాబ్స్ ప్రైవేట్ లిమిటెడ్ వారి తరపున మేనేజింగ్ డైరెక్టర్ అజయ్ చంద్ రవి, తండ్రి.రవి వేణు, నివాసం : హైదరాబాద్ పట్టణం, తెలంగాణ రాష్ట్రం.

వ్రాయించియిచ్చినవారు :

పెమ్మసాని సత్యనారాయణ, తండ్రి.కేశవయ్య, నివాసం : నందిగామ నగర పంచాయితీ, నందిగామ మండలం, కృష్ణా జిల్లా, ఆంధ్రప్రదేశ్ రాష్ట్రం.

P. S Narayana

స్వభావం :

నా స్వార్జితం బాపతు అనగా ది.31-05-2017వ తేదీన బేతవోలు గ్రామ కాపురస్థులు వడ్డె సత్యనారాయణ గారి కుమారుడు రమేష్ గారిచే శ్రీ నందిగామ సబ్‌రిజిష్ట్రార్ వారి కార్యాలయంలో 1వ పుస్తకం దస్తావేజు నెం.2105/2017రుగా విక్రయ దస్తావేజుగా రిజిష్టరు కాబడిన ఆస్థి నా పేరున పోచంపల్లి గ్రామ రెవెన్యూ రికార్డు నందు ఖాతా నెం.1452రుగా, ఎఫ్ నెం.06P01W024000100 రుగా నమోదు కాబడి పట్టాదారు పాసుపుస్తకము మరియు భూమి యాజమాన్యపు హక్కు పత్రములు మంజూరు కాబడిన ఆస్థి తదాది నా పూర్తి స్వాధీన నిర్వివాద సర్వసంపూర్ణ హక్కుభుక్తములలో యుండి, యితరులెవ్వరికి ఎట్టి అన్యాక్రాంతములకు లోబర్చనటువంటి యీ దిగువ షెడ్యూలు దాఖలా ఆస్థిని నా కుటుంబ ఖర్చుల నిమిత్తము మరియు నా కుటుంబ లాభ నిమిత్తము మీకు విక్రయించుటకు విక్రయ ప్రయత్నాలు చేయగా అందరి కన్నా మీరు హెచ్చుధర ఆఫర్ చేసినందున **బిల్‌మక్తాగా రూ.40,20,000/-లు అక్షరాలా నలుబది లక్షల ఇరువది వేల రూపాయిలకు విక్రయించి** సదరు క్రయధనము మింజుమలె బయానాగా ఈ రోజున అనగా ది.27-01-2019వ తేదీన ఆంధ్రాబ్యాంక్, నందిగామ బ్రాంచి ద్వారా చెక్కు నెం.000027రు ద్వారా రూ.7,00,000/-లు, అక్షరాలా ఏడు లక్షల రూపాయిలున్నూ, రూ.4,11,000/-లు, అక్షరాలా నాలుగు లక్షల పదకొండు వేల రూపాయిలను నగదుగాన్నూ, వెరశి మొత్తం రూ.11,11,000/-లు అక్షరాలా పదకొండు లక్షల పదకొండు వేల రూపాయిలను మీ నుండి నేను తీసుకున్నాను గాన నాకు ముట్టినవి. శేషించిన క్రయధనము రూ.29,09,000/-లు అక్షరాలా ఇరువది తొమ్మిది లక్షల తొమ్మిది వేల రూపాయలను మీరు నాకు ది.27-03-2019వ తేదీలోగా చెల్లించగల నిర్ణయం. షెడ్యూలు దాఖలా ఆస్థిని నా స్వంత ఖర్చులతో ఈ లోగా హద్దుదారుల సమక్షంలో కొలత చేయించి తేలిన విస్థీర్ణం ప్రకారం ధర నికరపరచుకోగల నిర్ణయం. షెడ్యూలు దాఖలా ఆస్తి పై బ్యాంకు ఋణాలు వగైరాలు యున్న యెడల వాటిని చెల్లించి రిజిష్టరు చేయగల నిర్ణయం. క్రయధనం పూర్తిగా ముట్టగనే మీరు ఎప్పుడు కోరితే అప్పుడు మీ ఖర్చుల పై మీ పేర గాని, మీరు కోరిన వారి పేర గాని సక్రమమైన విక్రయ దస్తావేజు వ్రాయించి యివ్వగలము. ఈ విక్రయమునకు ఎట్టి ఆటంకములు కల్గిననూ వాటినన్నింటిని నా స్వంత ఖర్చులతో తీర్మానము చేసి మీ యీ క్రయమును, మీ భుక్తమును నిరాఠంకముగా నిప్పేచీగా చెల్లించగలను.

షెడ్యూలు

కృష్ణాజిల్లా, నందిగామ సబ్ రిజిష్ట్రారు వారి యిలాకా, జగ్గయ్యపేట మండలం, పోచంపల్లి గ్రామ పంచాయితీ ఏరియాలోని, పోచంపల్లి గ్రామం తాలూకు **ఆర్.యస్.నెం.11/2బి** రు దాఖలా దస్తావేజు దాఖలా నాకు హక్కుగల **య.2-62**శెంట్లు భూమికి హద్దులు:

తూర్పు	:	బొద్దుల వనజాక్షి, భర్త.వెంకట రమణ గారి భూమి.
దక్షిణం	:	నరగొర్ల వలరాజు వగైరాల భూమి.
పడమర	:	నోముల వెంకట నాగ రమా కాంత్ గుప్త గారి భూమి.
ఉత్తరం	:	పుంత.

ఈ హద్దుల మధ్యస్థమైన **య.2-62**శెంట్లు, అక్షరాలా రెండు యకరముల అరువది రెండు శెంట్లు శెంట్ల శేరీ మెరక భూమి మాత్రము.

ఈ ఎగ్రిమెంటు అంశములకు నేను, నా వారసులము బద్దులము.
ఇది నా సమ్మతిన వ్రాయించియిచ్చిన స్థిరాస్తి విక్రయ ఎగ్రిమెంటు.

సాక్షులు :

1) ముమగాటి వీర వసంత రావు

2) Doddapaneni Vidya Sagar.

P. S. Narayana

27/1/2019

ముసాయిదా తయారు చేసినవారు : శ్రీకృష్ణ కన్సల్టింగ్ హోం, నందిగామ. సెల్ : 9394346306.

//TRANSLATION FROM TELUGU TO ENGLISH//

Executed on Government of India Non-Judicial Stamp Paper worth Rs.100/- vide Sl.No.932 Dt.25.11.2019 – purchased by Ajay Labs Private Limited, Rep.by Ajay Chand Ravi S/o Ravi Venu, Hyderabad

IMMOVABLE PROPERTY SALE AGREEMENT

Sold for Rs.40,20,000/- (Rs. Forty lakhs Twenty thousand only) has written and given this Sale Agreement.

Executed on 27-01-2019, Twenty seventh January Two thousand nineteen.

VENDEE: On behalf of Ajay Labs Private Limited their Managing Director Ajay Chand Ravi S/o Ravi Venu, R/o Hyderabad City, Telangana State.

VENDOR: Pemmasani Satyanarayana S/o Keshavaiah, R/o Nandigama Town Panchayathi, Nandigama Mandal, Krishna District, Andhra Pradesh State.

NATURE

My own property i.e. On 31.5.2017 by the resident of Betavolu village the son of Vadde Satyanarayana i.e. Ramesh registered in the Office of the Sub-Registrar of Nandigama vide Book 1, Doc.No.2105/2017 and in my name in Pochampally village Revenue Record vide Account No.1452 F No.06P01W024000100 Pattedar Passbook and Land Ownership document sanctioned, the property which is my possession from that date and undisputed and not alienated to anybody else the following schedule property due to my family necessities and for family benefits has offered to sell and as you have given good offer of Rs.40,20,000/- (Rs. Forty lakhs twenty thousand only) is sold to you and from the total sale consideration as advance Rs.7,00,000/- (Rs. Seven lakhs only) through Cheque No.000027 Dt.27/1/2019 and Rs.4,11,000/- (Rs. Four lakhs Eleven thousand only) in cash and total of Rs.11,11,000/- (Rs. Eleven lakhs eleven thousand only) is received from you. And the remaining sale consideration amount of Rs.29,09,000/- (Rs. Twenty nine lakhs Nine thousand only) is agreed to be given by you on Dr.27-03-2019. The schedule property will be measured with my own expenses in the presence of neighbouring holders and as per the outcome of the extent the rate will be decided. If there are any outstanding bank loans, etc., on the schedule property, all such shall be paid and registration will be done. After receiving the total

remaining sale consideration, whenever you desire an absolute Sale Deed can be registered in your name, or in the name of the person as you desire. If any obstruction are found related with this Sale deed, I shall settle the same with my own expenses and handover the Sale deed to you hassle free.

SCHEDULE

The property is situated in the limits of Krishna District, Nandigama Sub-Registrar area, Jaggayyapet Mandal, Pochampally village Panchayathi area, Pochampally village R.S.No.11/2B my own Ac.2.62 cents of land and the boundaries are as follows;

East : Land of Boddula Vanajakshi W/o Venkat Ramana

South : Land of Naragorla Valaraju and others

West : Land of Nomula Venkata naga Ramakanth Gupta

North : Punta

The land in between these boundaries Ac.2.62 cents, (Two acres Sixty two cents) of land only.

I and my legal heirs shall be binding to the contents of this Agreement.

This is the Sale Agreement written and given by my free will and consent.

SD/- P. S. NARAYANA

WITNESSES:

1. Sd/- Munugati Vera Vasantha Rao
2. Sd/- Doddapaneni Vidya Sagar

Draft prepared by: Sd/- Sri Krishna Consulting Home, Nandigama – Cell:9394346306

//TRANSLATION FROM TELUGU TO ENGLISH//WITHOUT PREJUDICE//
//Translated by: MOHAMMED RASHEED//

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Multi language Translators & Associates
Abids, Hyderabad-1 TS

ATTESTED
N. NEELAKANTAM GOUL
B.Com., LL.B
ADVOCATE & NOTARY
Rahimpura, Puranapool, Hyderabad

N. NEELAKANTAM GOUL B.Com., LL.B
S.O.No. No: 1321
Appointed By
The Govt. of A.P.
NOTARIAL

28 JAN 2019