2 Thousand 19

05 FRIDAY
095-270 • WK 14 APRIL

- After Auto zero put the Potassium Dichromate solution labeled as solution (A) and Press Start Key
- Now take absorbance at 430 nm for solution (B)
- tolerance is given in below table.

S.No	wavelength	Absorbance	maxium tolerance)
1	235	124.5	122.9 to 126.2
2	257	144.0	142.8 to 145.7
3	313	48.6	47.0 to 50.3
4	350	106.6	104.9 to 108.2
5	430	15.9	15.7 to 16.1

(5) Limit of Stray Light ⇒

1- Dry of the potassium chloride by heating to constant weight at 130°C.

⇒ 1.20 gm of dried potassium chloride — 100ml — 100ml V.f. makup to distilled water

⇒ Select the method file of limit of stray light in the instrument

⇒ Selecting the file Press Reference button for Baseline Correction

Sl.No	Wavelength in nm	to Analyst
1	198	Absorbance
2	199	Transfer Here
3	200	
4	201	
5	202	

SATURDAY 06
APRIL 096-269 • WK 14

⇒ Check the Absorbance of above Solution using water as a Blank at 200nm

(4) Resolution Power ⇒

⇒ Prepare 0.02% Solution of toluene in Hexane U.V.

⇒ Select the method file of Resolution Power in the instrument

⇒ After selecting the file Press Reference button for Baseline correction

⇒ Measure the absorbance of above Solution at 266 nm and 269 nm using Hexane UV as Blank Solution

⇒ The Ratio of absorbance maxima at 269 nm to that of 266 nm minima should be more than 1.5

⇒ Note down the Report in the Internal calibration certificate and instrument log book.

SUNDAY 07

2020-09-14 00:00:00

MAY

JUNE

(1) Control of wavelength ⇒ 1.0gm of Holmium oxide
1.4M Perchloric Acid ⟵ 25 ml v.f.

(2) Control of absorbance ⇒ Dry 130°C Potassium dichromate.
60mg ⟵ 1000ml v.f (A) ; 60mg ⟵ 100ml v.f (B)
0.005M Sulphuric Acid makup.

(3) Limit of stray light ⇒ Dry 130°C Potassium Chloride
1.20gm ⟵ 100ml v.f makup distilled water

(4) Resolution Powder ⇒ 0.02% solution of Toluene in Hexane!

- After Auto zero Put the Holmium Perchlorate solution in sample cuvette then Press Start Key

- The Permitted tolerance is given in below table

S.No	maxima wavelength (nm)	tolerance (nm)
1	241.15 nm	240.15 to 242.15 nm
~~1~~	~~241.15 nm~~	
2	287.15 nm	286.15 nm to 288.15 nm
3	361.5 nm	360.50 to 362.50 nm
4	536.3 nm	533.30 to 539.30 nm

① Control of Absorbance

1- Dry a quantity of the Potassium dichromate by heating to constant weight at 130°C

- 60 mg of dried Potassium dichromate — 1000ml V.F. make up to 0.005 m Sulphuric Acid solution. (A)

- 60 mg of dried Potassium dichromate — 1000ml V.F. make up to 0.005 m H_2SO_4 Solution (B)

- Blank - 0.005 m H_2SO_4 Solution in Cuvette and Press Reference to Zero.

U.V. Spectrophotometer (UV Periods 2.34)

U.V. Principal => Beer Lambert Law

U.V. Ray = 200 ~ 400 nm (more active)
Visible Ray = 400 - 800 nm

$$A \propto CL$$

A = Absorbance
C = Concentration
L = Optical path length

Calibration =>
① Control of wavelength - 1.0gm Holmium oxide
② Control of Absorbance
③ Limit of Stray light
④ Resolution Power

① Control of wavelength =>

1.0gm of Holmium oxide ——— 25ml v.f
makeup to 1.4m Perchloric Acid

- Select the method file of control of wavelength in the instrument
- After Selecting the file Press Reference button for Baseline Correction

23 SATURDAY
082-283 • WK 12 MARCH

Dissolution (DP)

इसमें हम देखते हैं कि हमारी tablets कितने समय में Dissolve हो रही हैं

⇒ Temp.. 37°C ± 0.5°C

⇒ RPM Check = Digital tactometer

⇒ tolerance 4nt. C or D (80%)

Note ⇒ 45 minutes में tablets Realise हो जानी हैं तो tablets ठीक हैं

⇒ Prednisone tablets calibration के लिए : 10mg

⇒ RPM Criteria : 4%.

IP ⇒ ① Paddle ② Basket
USP ⇒ ① Basket ② Paddle

⇒ tablets Limits ⇒ 75%.

Calibration DP

Buffer - water (500 ml)
Time - 30 min Basket and Paddle
Std : Prednisone
Tablets - Prednisone 10mg tablets
Limit Paddle ⇒ 28 to 42
Basket ⇒ 58 to 86

24 SUNDAY

09 SATURDAY
068-297 • WK 10 MARCH
2 Thousand 19

Molarity ⇒ Molarity is defined as the Number of moles of solute per liter of solution.

$$\text{molarity } m = \frac{\text{moles of solute}}{\text{liter of solution}}$$

Molality ⇒ Molality is defined as the Number of moles of solute per Kilogram of solvent.

$$\text{molality } m = \frac{\text{moles of solute}}{\text{Kilogram of solvent}}$$

~~Normality~~ ⇒ ~~Normality is another notation that~~

Normality ⇒ Normality is defined as the Number of equivalents per liter of solution.

$$\text{Normality} = \frac{\text{Number of equivalent}}{\text{liter of solution}}$$

10 SUNDAY

2019

Thousand 19

MONDAY 11
MARCH 070-295 • WK 11

Tablets Types -

1. Uncoated (Dispersible Tablets
2. Coated Tablets
3. Enteric Coated Tablets.

Uncoated - (1) Description -
(2) Average weight (20 Tablet)
(3) Uniformity of weight (20 Tablets)

Not more than < 80 mg — 10%.
+80 mg to 250 mg - 7.5%.
Above 250 mg - 5%.

(4) Dimensions - Length
- Width
- Thickness

(5) Hardness - Kg/cm^2

(6) Disintegration Time :
Uncoated - NMT 15 minutes
Film coated - NMT 30 minutes
Sugar Coated - NMT 60 minutes
Enteric coated - 2 Hrs 0.1 M HCl + (Buffer mix (11.45 gm KH_2PO_4 + ~~Na~~ 28.8 gm Na_2HPO_4) mix Phosphate Buffer PH - 6.8 for 1 Hrs 60 minutes.

(7) Dissolution -

KH_2PO_4 - Potassium dihydrogen ortho Phosphate
Na_2HPO_4 ⇒ Disodium hydrogen ortho Phosphate

APRIL MAY JUNE
2020-09-14 00:00:00
ACCOUNT OPENED

12 TUESDAY
071-294 • WK 11 MARCH
2 Thousand 19

Capsule -

- Size - '0' and '2'
1. Description
2. Average weight
3. Uniformity of weight

Less than 300 mg → ± 10%
Above 300 mg → 7.5%

4. Disintegration time - NMT 30 minutes
5. Dissolution.

Liquid (Syrup - Suspension)

1. Description
2. PH
3. Weight Per ml
4. Assay.

FRIDAY 08
MARCH 067-298 • WK 19

ALCOA

A - Attributable — एट्रिब्यूटेबल — when who performed it
L - Legible — लिजिबल
C - Contemporaneous — कन्टेम्पोरेनियस
O - Original — ओरिजनल
A - Accurate

PLUS

C - Complete
C - Consistent
E - Enduring
A - Available

WEDNESDAY 06
MARCH

TOC ⇒ Rinse water, cleaning validation PW, WFI,

Limit ⇒ 500 PPB NMT

Calibration ⇒ Potassium Hydrogen Phthalate (KHP)

System suit ⇒ Every week / every day

(Sucrose / 1-4 Benzoquinone

(Limit 85 to 115 %.)

1 billion = 10^9
1 million = 10^6
1 trillion = 10^{12}
1 quadrillion = 10^{15}

17 THURSDAY JANUARY

2 Thousand 19

017-348 • WK 03

L - Lysine -

Std

50 mg —— 100 ml Volumetric

2 ml —— 100 ml V.F

Test

10 ml test/ml —— 100 ml V.F

10 ml ——→ 100 ml V.F

Makup with water

CD

5 ml Std Solution —— 25 ml V.F

3 ml — Dye

(150 mg Ninhydrin + 5 ml methanol + 5 ml Pyridine)

(V.F water bath 30 minute)

Cool + makup with water

5 ml sample —— 25 ml V.F

3 ml - Dye

"

"

d = 570

29 TUESDAY JANUARY

2 Thousand 19

Albendazole

Std	Sample	Blank
100mg → 100ml V.F	2.5×Lot/ml → 100 V.F	Methanol HCl (0.1M) → 100ml V.F
↓ makeup Methanol HCl (0.1M)	↓ "	↓ "
↓ Filter	↓ "	↓ "
↓ 1ml → 100ml V.F	↓ 1ml → 100ml V.F	↓ 1ml → 100ml V.F
↓ makeup NaOH (0.1M)	↓ 0.1M NaOH makeup	↓ "

↓

d = 309

Methanol HCl 0.1M = (4.25 ml → 500 ml V.F)
HCl + Methanol makeup

NaOH 0.1M = (2.1 gm → 500 ml V.F)
Water Makeup.