



PROCESS VALIDATION REPORT OF CALCITRIOL & MULTIVITAMINS SOFTGEL CAPSULES

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1.0 REPORT APPROVAL:

| Function | Department | Name | Signature | Date |
|-----------------|-------------------|-------------|------------------|-------------|
| Prepared By | Quality Assurance | | | |
| Reviewed By | Production | | | |
| | Quality Control | | | |
| | Engineering | | | |
| Approved By | Head - Production | | | |
| | Head - QA | | | |



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2.0 VALIDATION TEAM*:

| Department | Name | Designation | Signature | Date |
|------------|------|-------------|-----------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

BATCHES UNDER VALIDATION

| Sr. No | Batch No. | Manufacturing Date | Expiry Date |
|--------|-----------|--------------------|-------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |

* The validation team includes production, QA, QC, and engineering as applicable

Reference Validation Protocol No.:



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3.0 INTRODUCTION:

Calcitriol & Multivitamins Softgelatin Capsules has been developed using the Soft Gel Encapsulation Technology. The batch conducted during the Validation exercise shall be setup for stability study, and other parameters monitored periodically and shall reviewed by the validation task force.

OBJECTIVE:

The objective of this exercise is to develop a **PROCESS VALIDATION REPORT** to demonstrate that the critical operation involved in the manufacturing process of product are capable of consistently producing batches which meet the limits of acceptance criteriaa.

JUSTIFICATION FOR VALIDATION:

MONITORING:

All the critical unit operation, process parameter specified in the Batch Manufacturing Record monitored and results are recorded in the validation.

TYPE OF VALIDATION:



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4.0 EQUIPMENT CALIBRATION / QUALIFICATION RECORD

BATCH NO.:

| Equipment | Location | Equipment No. | In Calibration / Qualification | Calibration / Qualification Due | Recorded By/Date | Checked By/Date |
|--------------------------|---------------------------------|---------------|--------------------------------|---------------------------------|------------------|-----------------|
| Reverse Laminar Air Flow | Dispensing Area | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Balance | Production Area | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Gelatin Cooking Vessel | Gelatin mass manufacturing area | | | | | |
| Gelatin Feeding Tank | | | | | | |



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| Equipment | Location | Equipment No. | In Calibration / Qualification | Calibration / Qualification Due | Recorded By/Date | Checked By/Date |
|---------------------------|-----------------------------|---------------|--------------------------------|---------------------------------|------------------|-----------------|
| Gelatin Feeding Tank | | | | | | |
| Hotplate | | | | | | |
| Colloidal Mill | | | | | | |
| Sieves 60#, 100#,80# | Medicament preparation area | | | | | |
| Medicament mixing unit. | | | | | | |
| Medicament Holding Vessel | | | | | | |
| Hot Plate | | | | | | |
| Colloidal Mill | | | | | | |
| Vibro Sifter | | | | | | |
| Ultrasonic Sonicator | | | | | | |
| Encapsulation M/C | Encapsulation area | | | | | |
| Tumbler Dryer | | | | | | |
| Degreasing Pan | | | | | | |
| Capsule Inspection Table | Inspecti on area | | | | | |
| Capsule shorting Machine | | | | | | |

Reviewed by : _____

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BATCH NO.:

| Equipment | Location | Equipment No. | In Calibration / Qualification | Calibration / Qualification Due | Recorded By/Date | Checked By/Date |
|--------------------------|---------------------------------|---------------|--------------------------------|---------------------------------|------------------|-----------------|
| Reverse Laminar Air Flow | Dispensing Area | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Balance | Production Area | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Gelatin Cooking Vessel | Gelatin mass manufacturing area | | | | | |
| Gelatin Feeding Tank | | | | | | |



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| Equipment | Location | Equipment No. | In Calibration / Qualification | Calibration / Qualification Due | Recorded By/Date | Checked By/Date |
|---------------------------|-----------------------------|---------------|--------------------------------|---------------------------------|------------------|-----------------|
| Gelatin Feeding Tank | | | | | | |
| Hotplate | | | | | | |
| Colloidal Mill | | | | | | |
| Sieves 60#, 100#,80# | Medicament preparation area | | | | | |
| Medicament mixing unit. | | | | | | |
| Medicament Holding Vessel | | | | | | |
| Hot Plate | | | | | | |
| Colloidal Mill | | | | | | |
| Vibro Sifter | | | | | | |
| Ultrasonic Sonicator | | | | | | |
| Encapsulation M/C | Encapsulation area | | | | | |
| Tumbler Dryer | | | | | | |
| Degreasing Pan | | | | | | |
| Capsule Inspection Table | Inspection area | | | | | |
| Capsule shorting Machine | | | | | | |

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BATCH NO.:

| Equipment | Location | Equipment No. | In Calibration / Qualification | Calibration / Qualification Due | Recorded By/Date | Checked By/Date |
|--------------------------|---------------------------------|---------------|--------------------------------|---------------------------------|------------------|-----------------|
| Reverse Laminar Air Flow | Dispensing Area | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Balance | Production Area | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Balance | | | | | | |
| Gelatin Cooking Vessel | Gelatin mass manufacturing area | | | | | |
| Gelatin Feeding Tank | | | | | | |



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| Equipment | Location | Equipment No. | In Calibration / Qualification | Calibration / Qualification Due | Recorded By/Date | Checked By/Date |
|---------------------------|-----------------------------|---------------|--------------------------------|---------------------------------|------------------|-----------------|
| Gelatin Feeding Tank | | | | | | |
| Hotplate | | | | | | |
| Colloidal Mill | | | | | | |
| Sieves 100#,80# | Medicament preparation area | | | | | |
| Medicament mixing unit. | | | | | | |
| Medicament Holding Vessel | | | | | | |
| Hot Plate | | | | | | |
| Colloidal Mill | | | | | | |
| Vibro Sifter | | | | | | |
| Ultrasonic Sonicator | | | | | | |
| Encapsulation M/C | Encapsulation area | | | | | |
| Tumbler Dryer | | | | | | |
| Degreasing Pan | | | | | | |
| Capsule Inspection Table | Inspection area | | | | | |
| Capsule shorting Machine | | | | | | |

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5.0 RAW MATERIAL RATIONALE:

The raw materials shall be tested to ensure that the materials are of the acceptable quality prior to their use in the manufacturing. All the excipients shall be tested as per the Pharmacopoeial monograph of respective excipients. The details of reference monographs, vendor and analytical reference number are given below:

| Raw Material | Reference Monograph | Name of vendor | A. R. No. | | |
|---|---------------------|----------------|-----------|---------|---------|
| | | | B. No.: | B. No.: | B. No.: |
| Gelatin IP (200 Bloom) | | | | | |
| Glycerin IP | | | | | |
| Sorbitol Solution (70 %) (Non-Crystallising) IP | | | | | |
| Methyl Paraben IP | | | | | |
| Propyl Paraben IP | | | | | |
| Fumaric Acid IP | | | | | |
| Colour Ponceau 4R Supra IHS | | | | | |
| Titanium Dioxide IP | | | | | |
| Purified Water IHS* | | | | | |
| Calcitriol IP @ | | | | | |
| Calcium Carbonate IP (BD-NLT 1g/ml) | | | | | |
| Vitamin K2-7 IHS # | | | | | |
| Mecobalamin JP £ | | | | | |
| Magnesium oxide heavy IP | | | | | |
| Zinc Sulphate Monohydrate BP | | | | | |
| L-Methyl Folate Calcium IHS \$ | | | | | |



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| Raw Material | Reference Monograph | Name of vendor | A. R. No. | | |
|---|---------------------|----------------|-----------|---------|---------|
| | | | B. No.: | B. No.: | B. No.: |
| Natural Vitamin E IHS | | | | | |
| Methyl Paraben IP | | | | | |
| Propyl Paraben IP | | | | | |
| White Bees Wax IP | | | | | |
| Hydrogenated Vegetable Oil BP (Lubritab) | | | | | |
| Butylated Hydroxytoluene IP | | | | | |
| Butylated Hydroxyanisole BP | | | | | |
| Lecithin USP-NF | | | | | |
| Disodium Edetate IP | | | | | |
| Citric Acid IP (Anhydrous) | | | | | |
| Refined Soya Oil BP | | | | | |
| Medium Chain Triglycerides BP (Hariol-538) | | | | | |
| Refined Soya Oil BP (For Fill Weight Setting & Machine Flush) | | | | | |
| Light Liquid Paraffin IP (For Machine Lubrication & Ribbon Lubrication) | | | | | |

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6.0 USAGE OF RAW MATERIAL (ACTIVE)

| Active Material | B.No. | A. R. No. | API B.No. | Assay (%) |
|-----------------|-------|-----------|-----------|--|
| Calcitriol | | | | |
| | | | | |
| | | | | |
| | | | | Limit: NLT 97.0 & NMT 103.0 |

| Active Material | B.No. | A. R. No. | API B.No. | Assay (%) | LOD (%w/w) |
|-------------------|-------|-----------|-----------|---|---------------------------------------|
| Calcium Carbonate | | | | | |
| | | | | | |
| | | | | | |
| | | | | Limit: Between 98.0 to 100.5 | Limit: NMT 2.0 % (w/w) |

| Active Material | B.No. | A. R. No. | API B.No. | Assay | LOD (%w/w) |
|-----------------|-------|-----------|-----------|----------------------------|---------------------------------------|
| Vitamin K2-7 | | | | | |
| | | | | | |
| | | | | | |
| | | | | Limit: NLT 2500 | Limit: NMT 8.0 % (w/w) |



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| Active Material | B.No. | A. R. No. | API B.No. | Assay (%) | Water (%w/w) |
|-----------------|-------|-----------|-----------|----------------------------|--|
| Mecobalamin | | | | | |
| | | | | | |
| | | | | | |
| | | | | Limit: NLT 98.0 | Limit: NMT 12.0 % (w/w) |

| Active Material | B.No. | A. R. No. | API B.No. | Assay (%) |
|---------------------------|-------|-----------|-----------|---|
| Zinc Sulphate Monohydrate | | | | |
| | | | | |
| | | | | |
| | | | | Limit: NLT 99.0 to NMT 101.0 |

| Active Material | B.No. | A. R. No. | API B.No. | Assay (%) |
|-----------------------|-------|-----------|-----------|---|
| Heavy Magnesium oxide | | | | |
| | | | | |
| | | | | |
| | | | | Limit: NLT 98.0 to NMT 100.5 |



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| Active Material | B.No. | A. R. No. | API B.No. | Assay (%) | Water (%w/w) |
|-----------------|-------|-----------|-----------|----------------------------|--|
| L-Methyl folate | | | | | |
| | | | | | |
| | | | | | |
| | | | | Limit: NLT 95.0 | Limit: NMT 25.0 % (w/w) |

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7.0 GELATIN MANUFACTURING PROCESS PARAMETERS & RESULTS:

7.1 Gelatin mass manufacturing parameter and results

Hot water circulation Temp.

| Batch No. | Date | Gelatin Preparation | Process Time | | Observed Temp. | Recorded By (Sign & Date) |
|-----------|------|---------------------|--------------|-----|----------------|---------------------------|
| | | | Start | End | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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FREQUENCY FOR EVERY 60 MIN

| Sr. No. | Date | Time | Observation | | | | Recorded By (Sign & Date) | |
|------------------------------|------|------|-------------------------|------------------------------|--------------------|---------------|------------------------------|-----------------------|
| | | | Vacuum Applied in mm Hg | Gelatin Cooking Vessel Temp. | Gelatin Mass Temp. | Stirrer Speed | | Appearance of gelatin |
| Batch No.: | | | | | | | | |
| Gelatin Mass manufacturing : | | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |

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FREQUENCY FOR EVERY 60 MIN

| Sr. No. | Date | Time | Observation | | | | Recorded By (Sign & Date) | |
|-------------------------------------|------|------|-------------------------|-----------------------------|--------------------|---------------|------------------------------|-----------------------|
| | | | Vacuum Applied in mm Hg | Gelatin Cooking Vessel Temp | Gelatin Mass Temp. | Stirrer Speed | | Appearance of gelatin |
| Batch No.: | | | | | | | | |
| Gelatin Mass manufacturing : | | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |

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8.0 MATURATION OF GELATIN MASS IN GELATIN HOLDING TANK (FREQUENCY AT 1 HR)

| Sr. No. | Date | Time | Set Temp. | Observed Temp. | Air Bubble | Uniformity of mass | Recorded By (Sign & Date) |
|---------------------------------------|------|------|-----------|----------------|------------|--------------------|---------------------------|
| Batch No.: | | | | | | | |
| Gelatin Mass holding tank ID : | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| Gelatin Mass holding tank ID : | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |



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| | | | | | | | |
|---|--|--|--|--|--|--|--|
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |

Reviewed by : _____

Date: _____

Validation

| S.No. | Date | Time | Set Temp. | Observed Temp. | Air Bubble | Uniformity of mass | Recorded By (Sign & Date) |
|---------------------------------------|------|------|-----------|----------------|------------|--------------------|---------------------------|
| Batch No.: | | | | | | | |
| Gelatin Mass holding tank ID : | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| Gelatin Mass holding tank ID : | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |



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| | | | | | | | |
|---|--|--|--|--|--|--|--|
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |

Reviewed by : _____

Date: _____

Validation

| Sr. No. | Date | Time | Set Temp. | Observed Temp. | Air Bubble | Uniformity of mass | Recorded By (Sign & Date) |
|---------------------------------------|------|------|-----------|----------------|------------|--------------------|---------------------------|
| Batch No.: | | | | | | | |
| Gelatin Mass holding tank ID : | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| Gelatin Mass holding tank ID : | | | | | | | |
| 1 | | | | | | | |



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| | | | | | | | |
|---|--|--|--|--|--|--|--|
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |

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Validation

| Sr. No. | Date | Time | Set Temp. | Observed Temp. | Air Bubble | Uniformity of mass | Recorded By (Sign & Date) |
|---------------------------------------|------|------|-----------|----------------|------------|--------------------|---------------------------|
| Batch No.: | | | | | | | |
| Gelatin Mass holding tank ID : | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |



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Gelatin Mass holding tank ID :

| | | | | | | | |
|---|--|--|--|--|--|--|--|
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |

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Validation

| Sr. No. | Date | Time | Set Temp. | Observed Temp. | Air Bubble | Uniformity of mass | Recorded By (Sign & Date) |
|---------------------------------------|------|------|-----------|----------------|------------|--------------------|---------------------------|
| Batch No.: | | | | | | | |
| Gelatin Mass holding tank ID : | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |



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| | | | | | | | |
|---------------------------------------|--|--|--|--|--|--|--|
| 7 | | | | | | | |
| Gelatin Mass holding tank ID : | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |

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Validation

| Sr. No. | Date | Time | Set Temp. | Observed Temp. | Air Bubble | Uniformity of mass | Recorded By (Sign & Date) |
|---------------------------------------|------|------|-----------|----------------|------------|--------------------|---------------------------|
| Batch No.: | | | | | | | |
| Gelatin Mass holding tank ID : | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |



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| | | | | | | | |
|---------------------------------------|--|--|--|--|--|--|--|
| 6 | | | | | | | |
| 7 | | | | | | | |
| Gelatin Mass holding tank ID : | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |

Reviewed by : _____

Date: _____

Validation

9.0 MEDICAMENT MANUFACTURING PROCESS PARAMETER

9.1 MEDICAMENT PREPARATION

| Sr. No. | Batch No. | Parameter | | | | |
|---------|-----------|----------------------------|---------------------------|---------------|-------------------------|---------------------------|
| | | Stirring Start (Time/Date) | Stirring Stop (Time/Date) | Mesh No. Used | Vacuum Applied in mm Hg | Recorded By (Sign & Date) |
| | | | | | | |
| | | | | | | |
| | | | | | | |



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10.0 SAMPLE COLLECTION SUMMARY

| Product | Calcitriol & Multivitamins | | |
|-------------------------|---------------------------------------|------------------|------------------|
| Sample Location↓ | Sample quantity (in gm) | | |
| | Batch No. | Batch No. | Batch No. |
| T1 | | | |
| T2 | | | |
| T3 | | | |



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| | | | |
|-----------------|--|--|--|
| M1 | | | |
| M2 | | | |
| M3 | | | |
| B1 | | | |
| B2 | | | |
| B3 | | | |
| B4 | | | |
| Sampled by/date | | | |

Reviewed by: _____
Validation

Date: _____

| | | | |
|-------------------------|---------------------------------------|------------------|------------------|
| Product | Calcitriol & Multivitamins | | |
| Sample Location↓ | Sample quantity in gm | | |
| | Batch No. | Batch No. | Batch No. |
| Composite Sample | | | |
| Sampled by/date | | | |

Reviewed by: _____
Validation

Date: _____

11.0 RESULTS OF ASSAY FOR MEDICAMENT

Batch No.

| Sampling location | % Assay | | | | |
|-------------------|------------|-------------------|-------------|--------------|-----------------|
| | Calcitriol | Calcium carbonate | Mecobalamin | Vitamin K2-7 | L-Methyl Folate |
| T1 | | | | | |



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| | | | | | |
|-------------------------|--|--|--|--|--|
| T2 | | | | | |
| T3 | | | | | |
| M1 | | | | | |
| M2 | | | | | |
| M3 | | | | | |
| B1 | | | | | |
| B2 | | | | | |
| B3 | | | | | |
| B4 | | | | | |
| Mean | | | | | |
| Minimum | | | | | |
| Maximum | | | | | |
| Checked By/ Date | | | | | |

Reviewed by: _____
Validation

Date: _____

Result for composite sample

Batch No.



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| % of Assay & Description | | | | |
|-------------------------------------|--------------------------|--------------------|---------------------|------------------------|
| Calcitriol | Calcium carbonate | Mecobalamin | Vitamin K2-7 | L-Methyl Folate |
| | | | | |
| Description | | | | |
| Checked By/ Date | | | | |

Reviewed by: _____
Validation

Date: _____

Batch No.



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| Sampling location | % Assay | | | | |
|-------------------------|------------|-------------------|-------------|--------------|-----------------|
| | Calcitriol | Calcium carbonate | Mecobalamin | Vitamin K2-7 | L-Methyl Folate |
| T1 | | | | | |
| T2 | | | | | |
| T3 | | | | | |
| M1 | | | | | |
| M2 | | | | | |
| M3 | | | | | |
| B1 | | | | | |
| B2 | | | | | |
| B3 | | | | | |
| B4 | | | | | |
| Mean | | | | | |
| Minimum | | | | | |
| Maximum | | | | | |
| Checked By/ Date | | | | | |

Reviewed by: _____

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Validation



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Result for composite sample

Batch No.

| % of Assay & Description | | | | |
|-------------------------------------|--------------------------|--------------------|---------------------|------------------------|
| Calcitriol | Calcium carbonate | Mecobalamin | Vitamin K2-7 | L-Methyl Folate |
| | | | | |
| Description | | | | |
| Checked By/ Date | | | | |

Reviewed by: _____
Validation

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Batch No.

| Sampling location | % Assay | | | | |
|-------------------------|------------|-------------------|-------------|--------------|-----------------|
| | Calcitriol | Calcium carbonate | Mecobalamin | Vitamin K2-7 | L-Methyl Folate |
| T1 | | | | | |
| T2 | | | | | |
| T3 | | | | | |
| M1 | | | | | |
| M2 | | | | | |
| M3 | | | | | |
| B1 | | | | | |
| B2 | | | | | |
| B3 | | | | | |
| B4 | | | | | |
| Mean | | | | | |
| Minimum | | | | | |
| Maximum | | | | | |
| Checked By/ Date | | | | | |

Reviewed by: _____

Date: _____

Validation



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Batch Size:

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Result for composite sample

Batch No.

| % of Assay & Description | | | | |
|-------------------------------------|--------------------------|--------------------|---------------------|------------------------|
| Calcitriol | Calcium carbonate | Mecobalamin | Vitamin K2-7 | L-Methyl Folate |
| | | | | |
| Description | | | | |
| Checked By/ Date | | | | |

Reviewed by: _____
Validation

Date: _____



PROCESS VALIDATION REPORT OF CALCITRIOL & MULTIVITAMINS SOFTGEL CAPSULES

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12.0 SAMPLES COLLECTED DURING ENCAPSULATION FOR IN-PROCESS PARAMETERS

| Batch No. | Sample Stage | Sample Quantity | Sampled By/Date |
|------------------|---------------------|------------------------|------------------------|
| | Minimum Speed | | |
| | Maximum Speed | | |
| | Optimum Speed | | |
| | Full Hopper | | |
| | Half Hopper | | |
| | End Hopper | | |
| | Initial stage | | |
| | Middle Stage | | |
| | End stage | | |
| | Minimum Speed | | |
| | Maximum Speed | | |
| | Optimum Speed | | |
| | Full Hopper | | |
| | Half Hopper | | |
| | End Hopper | | |
| | Initial stage | | |
| | Middle Stage | | |
| | End stage | | |
| | Minimum Speed | | |
| | Maximum Speed | | |
| | Optimum Speed | | |
| | Full Hopper | | |
| | Half Hopper | | |
| | End Hopper | | |
| | Initial stage | | |
| | Middle Stage | | |
| | End stage | | |



PROCESS VALIDATION REPORT OF CALCITRIOL & MULTIVITAMINS SOFTGEL CAPSULES

| | |
|----------------------|---------------------------|
| Batch Size: | BMR No.: |
| Protocol No.: | Page No.: 36 of 53 |

NOTE: In-process testing shall be carried out as per frequency in BMR and the recordings shall be done in the BMR and the results shall be evaluated.

13.0 INDIVIDUAL IN-PROCESS TEST DATA AND EVALUATION OF IN PROCESS DATA:

| INDIVIDUAL IN-PROCESS TEST DATA (SPEED) | | | | | | | |
|---|-------------------|-------|-------------------|------|------------------|------|--------------|
| Batch Number: | | Date: | | | | | |
| TESTS | RESULTS | | | | | | |
| | Minimum Speed () | | Maximum Speed () | | Optimum speed() | | |
| Description | | | | | | | |
| Gelatin Feed Tank temperature (°C) | | | | | | | |
| Duct temperature (°C) | | | | | | | |
| Segment temperature (°C) | | | | | | | |
| Spreader Box temperature (°C) | | Left | Right | Left | Right | Left | Right |
| | | | | | | | |
| Ribbon Thickness (From ribbon continuously formed) (mm) | | | | | | | |
| Cavity No | 1 | 2 | 3 | 4 | 5 | 6 | Avg. Net Wt. |
| Minimum Speed () | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| Maximum Speed () | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| Optimum Speed () | | | | | | | |



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Batch Size:

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| | | | | | | | |
|-----------|--|--|--|--|--|--|--|
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |

Reviewed by: _____

Date: _____

Validation

INDIVIDUAL IN-PROCESS TEST DATA (HOPPER)

| | | | | | | | |
|---|-------------|-------|-------------|-------|------------|-------|--------------|
| Batch Number: | | Date: | | | | | |
| TESTS | RESULTS | | | | | | |
| | Full Hopper | | Half Hopper | | End Hopper | | |
| Description | | | | | | | |
| Gelatin Feed Tank temperature (°C) | | | | | | | |
| Duct temperature (°C) | | | | | | | |
| Segment temperature (°C) | | | | | | | |
| Spreader Box temperature (°C) | Left | Right | Left | Right | Left | Right | |
| | | | | | | | |
| Ribbon Thickness (From ribbon continuously formed) (mm) | | | | | | | |
| Cavity No | 1 | 2 | 3 | 4 | 5 | 6 | Avg. Net Wt. |
| Full Hopper | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| Half Hopper | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| End Hopper | | | | | | | |



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Batch Size:

BMR No.:

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| | | | | | | | |
|-----------|--|--|--|--|--|--|--|
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |

Reviewed by: _____
Validation

Date: _____

INDIVIDUAL IN-PROCESS TEST DATA (STAGE)

| | | | | | | | | |
|---|---------------|-------|--------------|------|-----------|------|--------------|--|
| Batch Number: | | Date: | | | | | | |
| TESTS | RESULTS | | | | | | | |
| | Initial Stage | | Middle Stage | | End Stage | | | |
| Description | | | | | | | | |
| Gelatin Feed Tank temperature (°C) | | | | | | | | |
| Duct temperature (°C) | | | | | | | | |
| Segment temperature (°C) | | | | | | | | |
| Spreader Box temperature (°C) | | Left | Right | Left | Right | Left | Right | |
| | | | | | | | | |
| Ribbon Thickness (From ribbon continuously formed) (mm) | | | | | | | | |
| Cavity No | 1 | 2 | 3 | 4 | 5 | 6 | Avg. Net Wt. | |
| Initial Stage | | | | | | | | |
| Gross Wt. | | | | | | | | |
| Shell Wt. | | | | | | | | |
| Net Wt. | | | | | | | | |
| Middle Stage | | | | | | | | |
| Gross Wt. | | | | | | | | |
| Shell Wt. | | | | | | | | |
| Net Wt. | | | | | | | | |



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| | |
|----------------------|---------------------------|
| Batch Size: | BMR No.: |
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Reviewed by: _____

Date: _____

Validation

| INDIVIDUAL IN-PROCESS TEST DATA (SPEED) | | | | | | | |
|---|-------------------|-------|-------------------|-------|------------------|-------|--------------|
| Batch Number: | | Date: | | | | | |
| TESTS | RESULTS | | | | | | |
| | Minimum Speed () | | Maximum Speed () | | Optimum speed() | | |
| Description | | | | | | | |
| Gelatin Feed Tank temperature (°C) | | | | | | | |
| Duct temperature (°C) | | | | | | | |
| Segment temperature (°C) | | | | | | | |
| Spreader Box temperature (°C) | Left | Right | Left | Right | Left | Right | |
| | | | | | | | |
| Ribbon Thickness (From ribbon continuously formed) (mm) | | | | | | | |
| Cavity No | 1 | 2 | 3 | 4 | 5 | 6 | Avg. Net Wt. |
| Minimum Speed () | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| Maximum Speed () | | | | | | | |



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| | |
|----------------------|---------------------------|
| Batch Size: | BMR No.: |
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| | | | | | | | |
|-------------------------------|--|--|--|--|--|--|--|
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| Optimum Speed () | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |

Reviewed by: _____ Date: _____
Validation

| INDIVIDUAL IN-PROCESS TEST DATA (HOPPER) | | | | | | | |
|---|-------------|-------|-------------|-------|------------|-------|--------------|
| Batch Number: | | Date: | | | | | |
| TESTS | RESULTS | | | | | | |
| | Full Hopper | | Half Hopper | | End Hopper | | |
| Description | | | | | | | |
| Gelatin Feed Tank temperature (°C) | | | | | | | |
| Duct temperature (°C) | | | | | | | |
| Segment temperature (°C) | | | | | | | |
| Spreader Box temperature (°C) | Left | Right | Left | Right | Left | Right | |
| | | | | | | | |
| Ribbon Thickness (From ribbon continuously formed) (mm) | | | | | | | |
| Cavity No | 1 | 2 | 3 | 4 | 5 | 6 | Avg. Net Wt. |
| Full Hopper | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |



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| Half Hopper | | | | | | | |
|--------------------|--|--|--|--|--|--|--|
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| End Hopper | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |

Reviewed by: _____
Validation

Date: _____

| INDIVIDUAL IN-PROCESS TEST DATA (STAGE) | | | | | | | |
|---|---------------|-------|--------------|-------|-----------|-------|--------------|
| Batch Number: | Date: | | | | | | |
| TESTS | RESULTS | | | | | | |
| | Initial Stage | | Middle Stage | | End Stage | | |
| Description | | | | | | | |
| Gelatin Feed Tank temperature (°C) | | | | | | | |
| Duct temperature (°C) | | | | | | | |
| Segment temperature (°C) | | | | | | | |
| Spreader Box temperature (°C) | Left | Right | Left | Right | Left | Right | |
| Ribbon Thickness (From ribbon continuously formed) (mm) | | | | | | | |
| Cavity No | 1 | 2 | 3 | 4 | 5 | 6 | Avg. Net Wt. |
| Initial Stage | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |



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| | | | | | | | Net Wt. |
|-------------------------------|--|--|--|--|--|--|---------|
| Minimum Speed () | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| Maximum Speed () | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| Optimum Speed () | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |

Reviewed by: _____
Validation

Date: _____

INDIVIDUAL IN-PROCESS TEST DATA (HOPPER)

| Batch Number: | | Date: | | | | | |
|------------------------------------|-------------|-------|-------------|-------|------------|-------|--|
| TESTS | RESULTS | | | | | | |
| | Full Hopper | | Half Hopper | | End Hopper | | |
| Description | | | | | | | |
| Gelatin Feed Tank temperature (°C) | | | | | | | |
| Duct temperature (°C) | | | | | | | |
| Segment temperature (°C) | | | | | | | |
| Spreader Box temperature (°C) | Left | Right | Left | Right | Left | Right | |
| | | | | | | | |



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| | |
|----------------------|---------------------------|
| Batch Size: | BMR No.: |
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| Ribbon Thickness (From ribbon continuously formed) (mm) | | | | | | | |
|---|---|---|---|---|---|---|--------------|
| Cavity No | 1 | 2 | 3 | 4 | 5 | 6 | Avg. Net Wt. |
| Full Hopper | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| Half Hopper | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| End Hopper | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |

Reviewed by: _____
Validation

Date: _____

| INDIVIDUAL IN-PROCESS TEST DATA (STAGE) | | | | | | |
|---|---------------|-------|--------------|-------|-----------|-------|
| Batch Number: | Date: | | | | | |
| TESTS | RESULTS | | | | | |
| | Initial Stage | | Middle Stage | | End Stage | |
| Description | | | | | | |
| Gelatin Feed Tank temperature (°C) | | | | | | |
| Duct temperature (°C) | | | | | | |
| Segment temperature (°C) | | | | | | |
| Spreader Box temperature (°C) | Left | Right | Left | Right | Left | Right |



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Batch Size:

BMR No.:

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| Ribbon Thickness (From ribbon continuously formed) (mm) | | | | | | | |
|---|---|---|---|---|---|---|--------------|
| Cavity No | 1 | 2 | 3 | 4 | 5 | 6 | Avg. Net Wt. |
| Initial Stage | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| Middle Stage | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |
| End Stage | | | | | | | |
| Gross Wt. | | | | | | | |
| Shell Wt. | | | | | | | |
| Net Wt. | | | | | | | |

Reviewed by: _____
Validation

Date: _____

EVALUATION:



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| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

15.0 SAMPLE COLLECTION AND LOD RESULTS:

| S.N. | Batch No. | Drying Time | Sample Quantity | Description | Sampled By | LOD Result Limit 6.0-10.0% |
|------|-----------|-----------------------|-----------------|-------------|------------|----------------------------|
| 1 | | After 32 hr of drying | | | | |
| 2 | | After 37 hr of drying | | | | |
| 3 | | After 42 hr of drying | | | | |
| 1 | | After 32 hr of drying | | | | |
| 2 | | After 37 hr of drying | | | | |
| 3 | | After 42 hr of drying | | | | |
| 1 | | After 32 hr of drying | | | | |
| 2 | | After 37 hr of drying | | | | |
| 3 | | After 42 hr of drying | | | | |

Reviewed by : _____
Validation

Date: _____

16.0 FINISHED PRODUCT ANALYSIS REPORT:

(As per specification No.)

| S. No | Test | Specification | BATCH NO: | | |
|-------|------|---------------|-----------|--|--|
| | | | | | |
| | | | | | |



PROCESS VALIDATION REPORT OF CALCITRIOL & MULTIVITAMINS SOFTGEL CAPSULES

Batch Size:

BMR No.:

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| S. No | Test | Specification | BATCH NO: | | |
|-------|-------------------------------|---|-----------|--|--|
| | | | | | |
| 1. | Description | Red coloured, oval shaped, softgelatin capsules containing pale brown to pink coloured viscous oily paste. | | | |
| 2 | Identification | The retention time of the principal peak in the chromatogram of sample preparation should correspond to that of the principal peak in the chromatogram of standard preparation as obtained in the "Assay" for Calcitriol. | | | |
| | For Calcitriol (By HPLC) | | | | |
| | For Vitamin K2-7 (By HPLC) | The retention time of the principal peak in the chromatogram of sample preparation should correspond to that of the principal peak in the chromatogram of standard preparation as obtained in the "Assay" for Vitamin K2-7. | | | |
| | For Mecobalamine (By HPLC) | The retention time of the principal peak in the chromatogram of sample preparation should correspond to that of the principal peak in the chromatogram of standard preparation as obtained in the "Assay" for mecobalamine. | | | |



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| S. No | Test | Specification | BATCH NO: | | |
|-------|---|--|-----------|--|--|
| | | | | | |
| | For L-Methyl folate | The retention time of the principal peak in the chromatogram of sample preparation should correspond to that of the principal peak in the chromatogram of standard preparation as obtained in the "Assay" for L-Methyl Folate. | | | |
| 3 | Average net content (mg) | 1875 + 5.0% (1781.3 - 1968.8) | | | |
| 4 | Average Weight (mg) | 2250.0 + 5.0 % (2137.5 - 2362.5) | | | |
| 5 | Uniformity of weight (mg) | Not more than two of individual weights deviate from the average weight by more than 7.5 % and none deviates by more than 15 %. | | | |
| 6 | Disintegration Time (min) | Not more than 60 | | | |
| 7 | Assay Calcitriol (By HPLC, as [C ₂₇ H ₄₄ O ₃]) -mcg per capsule -% label claim | Not less than 0.225 Not less than 90.0 | | | |



PROCESS VALIDATION REPORT OF CALCITRIOL & MULTIVITAMINS SOFTGEL CAPSULES

Batch Size:

BMR No.:

Protocol No.:

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| S. No | Test | Specification | BATCH NO: | | |
|-------|---|--|-----------|--|--|
| | | | | | |
| | Calcium Carbonate (By Titrimetry, as CaCO_3) -mg per capsule -% label claim | Not less than 1125.0 Not less than 90.0 | | | |
| | Mecobalamin (By HPLC) -mcg per capsule -% label claim | Not less than 1350.0 Not less than 90.0 | | | |
| | Vitamin K2-7 (By HPLC) -mcg per capsule -% label claim | Not less than 40.5 Not less than 90.0 | | | |
| | L-Methyl Folate (By HPLC) -mcg per capsule -% label claim | Not less than 720.0 Not less than 90.0 | | | |
| | Zinc (By AAS) -mg per capsule -% label claim | Not less than 6.75 Not less than 90.0 | | | |
| | Magnesium (By AAS) -mg per capsule -% label claim | Not less than 45.0 Not less than 90.0 | | | |

Reviewed by: _____

Date: _____



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17.0 PERCENTAGE YIELD AT THE END OF INSPECTION:

| Batch No. | % yield | Limit* |
|-----------|---------|--------|
| | | |
| | | |
| | | |

* Yield Limit is tentative and will be finalised after 10 or more production batches.

Reviewed by: _____

Date: _____

Validation

18.0 DESTRUCTION OF REMAINING SAMPLES:

| Batch No.: | Destruction done by / Date | Checked by / Date |
|------------|----------------------------|-------------------|
| | | |
| | | |
| | | |

All remaining samples of the batch are destroyed as per SOP No. -----

Reviewed by: _____

Date: _____

Validation



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CONCLUSION:

Calcitriol & Multivitamins Batch Nos.: _____ , _____ and _____ manufactured in the facility as the validation batch meet the specification of Softgel. The process of manufacturing was carried as per the approved Batch Manufacturing records and process of Manufacturing is validated. The all process Validation batches has been manufactured and validated in full compliance with cGMP requirement.

| Batch No. | A.R.No. of Finished Product |
|-----------|-----------------------------|
| | |
| | |
| | |

APPROVAL

| | HEAD – PRODUCTION | HEAD – QC | HEAD – QA |
|------------------------|-------------------|-----------|-----------|
| SIGN & DATE | | | |

REVISION CARD

| S. No. | RPV No. | Reason for Revision | Change Control No. |
|--------|---------|---------------------|--------------------|
| 1 | | New | ----- |



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