Isoconazole nitrate (ISO) 1-(2,4-dichloro-b-(2,6-dichlorobenzyloxy) phenethyl)-imidazole nitrate (Fig. 1b), is a broad spectrum topical antifungal drug. It is effective against dermatophytes, yeasts, yeast-like fungi, molds as well as the causative organism of tinea versicolor and erythrasma. To date, several different analytical methods have been reported for the individual determination of isoconazole nitrate using high-performance liquid chromatography, HPLC (1, 2). European Pharmacopeia (EP) proposed potentiometric titration method for assay and liquid chromatography method for its related substances (3). There is also one forced degradation study required for the estimation of stability of ISO in bulk drug and cream formulations (4). However, none of the previously reported methods have stability indicating property.

Diflucortolone valerate (DIF), 6-alpha, 9-difluoro-11beta-hydroxy-21-valeryloxy-16alpha-methyl-1,4-pregna-diene-3,20-dione (Fig. 1a), is a member of glucocorticoids class III with high efficacy and belongs to a family of medications known as topical corticosteroids. It suppresses inflammation in allergic skin conditions and alleviates the subjective complaints such as itching, burning and pain. According to British Pharmacopoeia (BP) monograph, liquid chromatography method is applied for the determination of assay and related substances of DIF (5). In the literature, HPLC methods have been described for the analysis of DIF in pharmaceutical dosage forms and in its combined form with other substances (6-9).

Combination therapy of an antimycotic and a topical corticosteroid is useful as the steroid component provides rapid symptomatic relief, whereas the antimycotic agent eradicates causative organisms (10, 11). Since the combination of DIF and ISO is already being used for treatment of fungal infection...
and cutaneous eruption, there is an urgent need for the simultaneous and quantitative determination of these compounds in their binary mixture or in the pharmaceutical preparations free from process impurities, excipients and degradation products. Accordingly, stability indicating method is also needed to probe the changes of the active substances with time, as the chemical stability of pharmaceutical molecules affects the safety and efficacy of the drug significantly. There are already three reported methods using HPLC, TLC, UPLC and spectrophotometry dealing with the first derivative of the drug spectra and PCR chemometric method and also one comparative study on these four spectrophotometric methods manipulating ratio spectra for the simultaneous determination of a binary mixture of diflucortolone valerate and isoconazole nitrate (12-14). However, none of these methods are stability indicating. Notably, the ICH guideline emphasizes the importance of stress test in order to identify likely degradation products, which further helps to determine the intrinsic stability of the drug molecule (15). Therefore, this study was designed to address two major issues: (1) to develop a chromatographic method for the simultaneous determination of DIF and ISO in a combined pharmaceutical form; (2) to measure the stability indicating the ability of the proposed method by applying forced degradation study to a pharmaceutical cream formulation. We have successfully developed and validated a simple, rapid, precise, isocratic RP-HPLC method with a PDA detector in accordance with the requirements of the ICH guidelines for the simultaneous estimation of the ingredients in presence of their degradation products.

**EXPERIMENTAL**

**Chemicals and reagents**

HPLC grade methanol was purchased from J.T Baker (Deventer, Holland), o-phosphoric acid (85% w/v) and sodium dihydrogen phosphate were obtained from Merck, Zug, Switzerland and they were used for the preparation of mobile phase. Ultra-pure water was prepared by using Elga Purelab Classic purification system and was used for the preparation of all solutions. Hydrochloric acid (37% w/v), sodium hydroxide pellets and hydrogen peroxide (30% w/v) were provided by Merck, Zug, Switzerland, they were used for the forced degradation study. DIF active substance (99.4%), working standard (99.3%) and impurity standard (Diflucortolone impurity, 98.4%) were supplied by Farmabios SpA (Gropello Cairoli, Italy). ISO active substance (99.3%) and working standard (99.5%) were provided by Gufic Biosciences Limited (Mumbai, India). Drug product, Travocort cream, was purchased from the market with a label claim of 10 mg Isoconazole Nitrate and 1 mg Diflucortolone Valerate. The excipients of the drug include white soft paraffin, liquid paraffin, cetostearyl alcohol, Polysorbate 60, sorbitan stearate, disodium edetate dihydrate.

**Instrument and chromatographic conditions**

Shimadzu HPLC Prominence System equipped with a PDA (SPD-M20A) detector, DGU-20A, degasser, LC-20AT quaternary pump, SIL-20ACHT autosampler and CTO-10AS VP column oven was used for the method development, forced degradation, peak purity, and method validation studies. The
data was monitored and processed using SHIMADZU LC Solution Software. Chromatographic separations were performed on an ACE C18 column, 150 mm × 4.6 mm, 5 µm particle size at 40°C. The flow rate was 1.5 mL/min. The mobile phase consisted of 0.03 M sodium dihydrogen phosphate monohydrate buffer, (pH 2.7 ± 0.05) and methanol with a ratio of 27 : 73, v/v. Methanol and water mixture (70 : 30, v/v) was used as a diluent and the injection volume was 20 µL. Detection wavelength of the chromatographic system was set to 240 nm and autosampler temperature was 8°C.

Preparation of diflucortolone valerate stock standard solution
The stock DIF solution was prepared by dissolving 10 mg standard in 10 mL of methanol in an ultrasonic bath for about 5 minutes and then diluting to 20 mL with methanol.

Preparation of standard solution
10 mg of ISO working standard was weighed and transferred into a 100 mL volumetric flask and dissolved using 50 mL of diluent in an ultrasonic bath for 10 minutes. After cooling to room temperature, 2.0 mL of DIF stock standard solution is transferred into this solution. Then, the mixture is diluted to the desired volume with diluent.

Preparation of sample solutions
Approximately 1000 mg of a cream sample containing 1.0 mg of DIF and 10.0 mg of ISO was dissolved in 60 mL of diluent by keeping the solution in an ultrasonic bath for 20 minutes (Note: prevent the heating of sample by maintaining the water temperature and close the beaker tightly with an aluminum foil). This mixture was transferred into a 100 mL of volumetric flask and diluted to volume with diluent. Then, the solution is filtered through a 0.45 µm nylon filter and transferred to the HPLC vial.

Procedure for forced degradation study of drug product and drug substances
Forced degradation studies of a drug product and each drug substances were carried out under acid/base hydrolysis, photolysis, thermal and oxidative stress conditions. About 1000 mg of a drug product and 10 mg of each drug substances were separately used to perform degradation studies.

Acid and Alkaline Hydrolysis
Solutions containing 0.01 mg/mL DIF and 0.1 mg/mL ISO were subjected to 0.05 N HCl and 0.05 N NaOH for 2 h at ambient temperature, respectively. Then, the pH of the solutions was rearranged to an initial pH of a drug product (4.6).

Oxidative degradation
Solutions containing 0.01 mg/mL DIF and 0.1 mg/mL ISO were treated with 30% H2O2 solution at room temperature for 6 h. Then the solutions were heated to boil for 5 minutes. After cooling, the solutions were diluted to volume.

Thermal degradation
Thermal degradation studies were carried out with solid samples in a temperature controlled oven at 80°C for 5 days. After the specified time, the solutions containing 0.01 mg/mL DIF and 0.1 mg/mL ISO were prepared and each sample was analyzed to observe the possible degradation products.

Photolysis
Solid samples were kept under UV light for 5 h at room temperature and solutions containing 0.01

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile phase</td>
<td>Sodium dihydrogen phosphate buffer : methanol (27 : 73, v/v)</td>
</tr>
<tr>
<td>Pump mode</td>
<td>Isocratic</td>
</tr>
<tr>
<td>Diluent</td>
<td>Methanol: water (70 : 30, v/v)</td>
</tr>
<tr>
<td>Column</td>
<td>ACE C18 column (150 × 4.6 mm id, 5 µm particle size)</td>
</tr>
<tr>
<td>Column oven temperature</td>
<td>40°C</td>
</tr>
<tr>
<td>Wavelength</td>
<td>240 nm</td>
</tr>
<tr>
<td>Injection volume</td>
<td>20 µL</td>
</tr>
<tr>
<td>Flow rate</td>
<td>1.5 mL/min</td>
</tr>
<tr>
<td>Run time</td>
<td>10 min</td>
</tr>
<tr>
<td>Retention time</td>
<td>Diflucortolone valerate: 3.6 min; Isoconazole nitrate: 6.2 min</td>
</tr>
</tbody>
</table>
The method was validated for specificity and selectivity, linearity and range, limit of detection (LOD) and limit of quantification (LOQ), precision, accuracy, robustness, and solution stability as per FDA guidelines (16, 17).

Specificity and Selectivity
For the specificity and selectivity test, working standards, spiked/unspiked sample solutions, placebo and mobile phase solutions were injected into HPLC and resolution of the peaks from the nearest eluting peak was measured. In addition, system suitability was checked to evaluate the chromatographic performance.

Linearity
Linearity of the method was determined by preparing a series of diluted solutions in the concentration range of 2-12 µg/mL for DIF and 20-123 µg/mL for ISO. The samples of each solution were injected 2 times and each series comprised 6 experimental points. Then, the concentrations were plotted against peak areas.

Limit of Detection and Limit of Quantification
LOD and LOQ values were determined by the standard deviation method from the slope (S) of the linearity curve and the standard deviation (σ) of the response. They were predicted using following formulas; LOD = 3.3 × σ/S and LOQ = 10 × σ/S.

Accuracy
Accuracy for the proposed method was evaluated by spiking constant amount of placebo with known amount of active substances by the standard addition method. The experiment was carried out by adding each active substance corresponding to three concentration levels (2 µg/mL, 10 µg/mL, 12 µg/mL for DIF; 20 µg/mL, 100 µg/mL, 120 µg/mL for ISO) for using three replicate determinations. The percent recovery values were calculated.

Precision
Precision was determined as both repeatability (intra-day precision) and intermediate precision (inter-day precision). Method repeatability was evaluated by analyzing six samples during the same day. The intermediate precision was studied comparing the assays performed on two different days. From the areas obtained, the % relative standard deviation (RSD) values were calculated for each active substance.

Robustness
The influence of small but deliberate variations in the chromatographic conditions was evaluated by performing the robustness test on the system. The robustness of the method was determined by changing the flow rate 1.5 ± 0.1 mL/min (1.4 mL/min – 1.6 mL/min), mobile phase buffer ratio (27 ± 2) and column temperature 40 ± 2°C (38°C – 42°C). For each substance, the effect of change on retention time, symmetry factor and % assay value were evaluated.

Figure 2. Specificity chromatograms of (A) blank (composed of 70 volumes of methanol and 30 volumes of water), (B) diflucortolone impurity solution (t_R = 2.11 min.), (C) sample solution (t_R = 5.74 min. for DIF and t_R = 3.63 min. for ISO) (D) placebo solution
Solution stability

The stability of the active substances in solution was established by the repeated analysis of samples at the storage condition. For this purpose, standard and sample solutions were analyzed in chromatographic conditions for every 6 h interval for a time period of 48 h. The results were evaluated for the percent difference from time zero.

RESULTS AND DISCUSSION

Optimization of the method

The main objective of the developed method is to achieve simultaneous and quantitative determination of DIF and ISO in topical formulations in the presence of their degradation products by using reverse phase HPLC system. For this purpose, chromatographic behaviors of degradation products and active substances were studied in a combined dosage form.

Before starting the method development, various physiochemical properties of drugs like pKa value, log P, solubility and absorption maximum were evaluated to optimize the HPLC method. Log P and solubility values help to select mobile phase and sample solvent while pKa value helps to determine the pH of the mobile phase (18). In semisolid formulations, the choice of diluent is critical to guarantee that all the active substances are extracted from the matrices. For this purpose, different ratios of water:acetonitrile and water:methanol mixtures were studied. The extraction of the active components from a sample with good recovery was achieved by using water:methanol mixture (30 : 70, v/v) as diluent.

For the optimization of stationary phase, several reversed phase columns [Fortis C18 (4.6 × 250 mm, 2.7 µm), ACE C18 (4.6 × 250 mm, 5 µm), ACE C8 (4.6 × 250 mm, 5 µm), Phenomenex Luna C18 (75 × 4.6 mm, 2.6 µm), ACE C18 (4.6 × 150 mm, 5 µm) and Inertsil ODS-3V C18 (4.6 × 250 mm, 5 µm)] were tested. When C8 columns were used, peak fronting was observed for both ISO and DIF with a very low theoretical plate number. To improve the peak shapes, an attempt was made by replacing the C8 column with C18, which led to better performance characteristics for both active drugs. Therefore, ACE C18 (150 × 4.6 mm, 5 µm) column was chosen as the stationary phase. Afterward, different mobile phase systems were tested, and the selection of the proper system depended on its ability to give good separation between the pure drugs and their possible degradation products. Several mobile phases were tried using various proportions of water and methanol. While increasing the proportion of the aqueous phase led to the adequate separation of the peaks, it caused prolonged retention times and peak tailing particularly for DIF. To obtain better peak shapes and efficient resolution between the degradation products and active drugs, sodium dihydrogen phosphate buffer solution was used as an aqueous phase instead of water. The pH of the buffer phase was varied (pH 2.7, 4.5 and 6.0) to get optimum separation between the possible degradation products of DIF and ISO in stressed samples. When the buffer pH is arranged to 6.0, specified degradation product (diflucortolone impurity) was coeluted with DIF. Then, the pH value was set to 4.5, this time adequate resolution was achieved for all degradation products, however, this has led to prolonged retention times. When the buffer solution with a pH value of 2.7 was tried, it provided both well-resolved peaks and short run time; therefore, pH 2.7 was selected for the subsequent studies.

The wavelength selection was done by injecting known concentrations of DIF, ISO and diflucortolone impurity to HPLC system equipped with a PDA detector. A common wavelength for the simultaneous determination of all the components was selected as 240 nm by overlaying the spectra and wavelength at which all components had significant absorbance.

Finally, an isocratic method was employed using a buffer (Sodium dihydrogen phosphate, pH 2.70), and methanol in the ratio of 27 : 73 v/v as a mobile phase. The flow rate of the system was set to 1.5 mL/min with 40°C column oven temperature. Since the solution stability is provided at 8°C for 48 hours, autosampler temperature was set to 8°C to prevent possible degradation of active substances in solution. Detection wavelength of the system was chosen as 240 nm. Separation of the compounds was achieved by ACE C18 (150 × 4.6 mm, 5 µm) column with 20 μL injection volume. Optimized chromatographic conditions are summarized in Table 1. By using corresponding chromatographic conditions; diluent, standard solution, sample, spiked sample, and placebo solutions were prepared and injected into the HPLC (Fig. 2).

Stress testing of individual drug substances and the combined dosage form was performed to measure the resolution factors of the drug peaks from all other peaks. Identification of stressed samples resulted in one specified (diflucortolone impurity; RRT 0.34) and one unspecified degradation product (RRT 0.41) for DIF and one unspecified degradation product (RRT 0.82) for ISO. The degradation products produced as a result of stress study did not interfere with the detection of active substances. Therefore,
the developed method could be regarded as stability indicating. The results of the analysis were fully validated. Thus, the method is suitable for application in the routine analysis of pharmaceutical formulations consisting of ISO and DIF in combination.

**Analytical method validation**

Validation of test parameters was performed to verify the quantitative determination of method, after ensuring the optimal separation conditions. Based on (USP/ICH) guidelines, the method is validated with regard to system suitability, specificity, linearity, LOD and LOQ, accuracy, precision, and robustness as follows.

**System suitability**

System suitability parameters were measured to verify the system, method, and column performance.

The % RSD values for six replicate injections of DIF and ISO standard solutions were 1.06, and 1.35, respectively. Low values of % RSD indicates that the system is precise. The tailing factors for both DIF and ISO peaks were 1.1. The efficiency of the column was proved in terms of a number of theoretical plates. All the results and acceptance criteria for the system suitability test are summarized in Table 2.

**Specificity**

The active substances, placebo, and impurity peaks were observed without any overlapping in the chromatogram indicating the specificity of the method (Fig. 2).

**Method precision**

RSD less than 2% is generally accepted for precision so it was set as an acceptance criterion for precision. The results and acceptance criteria for the precision test are summarized in Table 3.

### Table 2. System suitability results.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Area (%RSD, n = 6) ≤ 2.0 acceptance criteria</th>
<th>USP Plate count &gt; 2000 acceptance criteria</th>
<th>USP tailing ≤ 2.00 acceptance criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIF</td>
<td>1.06</td>
<td>5226</td>
<td>1.10</td>
</tr>
<tr>
<td>ISO</td>
<td>1.35</td>
<td>4609</td>
<td>1.09</td>
</tr>
</tbody>
</table>

*a Diflucortolone valerate, b Isoconazole nitrate*

### Table 3. Intra-day and inter-day precision (n = 6) results.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Theoretical Concentration (µg/mL)</th>
<th>Recovery (%)</th>
<th>Measured concentration (µg/mL) ± S.D.</th>
<th>% RSD</th>
<th>Recovrery (%)</th>
<th>Measured concentration (µg/mL) ± S.D.</th>
<th>% RSD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Repeatibility (Intra-day)</td>
<td></td>
<td>Intermediate precision (Inter-day)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIF</td>
<td>10</td>
<td>101.87</td>
<td>10.19 ± 1.28</td>
<td>1.26</td>
<td>102.64</td>
<td>10.26 ± 0.59</td>
<td>0.57</td>
</tr>
<tr>
<td>ISO</td>
<td>100</td>
<td>101.39</td>
<td>101.39 ± 0.61</td>
<td>0.60</td>
<td>99.31</td>
<td>99.31 ± 1.56</td>
<td>1.57</td>
</tr>
</tbody>
</table>

*a Diflucortolone valerate, b Isoconazole nitrate, S.D. Standard deviation*

### Table 4. Results of recovery test for drug product.

<table>
<thead>
<tr>
<th>Concentration (µg/mL)</th>
<th>% Recovery*</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIF</td>
<td>ISO</td>
</tr>
<tr>
<td>2.0</td>
<td>98.7</td>
</tr>
<tr>
<td>10.0</td>
<td>98.8</td>
</tr>
<tr>
<td>12.0</td>
<td>98.1</td>
</tr>
<tr>
<td>mean</td>
<td>98.5</td>
</tr>
<tr>
<td>± standard deviation</td>
<td>0.92</td>
</tr>
<tr>
<td>% relative standard deviation</td>
<td>0.93</td>
</tr>
</tbody>
</table>

*a Average of three determinations,  b Diflucortolone valerate, c Isoconazole nitrate*
Table 5. Forced degradation study conditions.

<table>
<thead>
<tr>
<th>Applied Stress</th>
<th>Stress conditions, duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid hydrolysis</td>
<td>0.05 N HCl, 2 h</td>
</tr>
<tr>
<td>Base hydrolysis</td>
<td>0.05 N NaOH, 2 h</td>
</tr>
<tr>
<td>Oxidative degradation</td>
<td>30% (v/v) H₂O₂, 6 h</td>
</tr>
<tr>
<td>Thermal degradation</td>
<td>80°C, 5 days</td>
</tr>
<tr>
<td>Photodegradation</td>
<td>UV light, 5 h</td>
</tr>
</tbody>
</table>

Figure 4. Chromatograms of forced degradation study; (A) Acid degradation (0.05 mol/L HCl; 298 K; 2 h) of diflucortolone valerate drug substance, (B) Acid degradation (0.05 mol/L HCl; 298 K; 2 h) of drug product, (C) base degradation (0.05 mol/L NaOH; 298 K; 2 h) of drug product.
this study (16). From the assay results obtained, % RSD values were calculated as 1.26 and 0.60 for DIF and ISO, respectively. The results are within the limits (RSD < 2), indicating high precision of the developed method (Table 3).

Accuracy
Percentage recovery and low relative standard deviation values show accuracy of the method (17). Generally acceptable values for accuracy range from 95-105%. The recovery values for DIF and ISO ranged from 98.1% to 98.8% and 99.8% to 101.7%, respectively, demonstrating that the method is accurate within the desired range. The results are shown in Table 4.

Linearity
According to the guidelines, regression coefficient ($R^2$) of each active substance should be $= 0.999$ for linearity (17). Linear calibration curves of each drug were obtained over the calibration ranges 2-12 µg/mL for DIF and 20-123 µg/mL for ISO. The calibration curves described by the equations were as follows: $y = 27.127 - 0.00176$ ($R^2 = 0.999$) for DIF and $y = 0.970 - 0.000863$ ($R^2 = 1.000$) for ISO. Since regression coefficients for both drugs are higher than 0.999, response is linear over the proposed range.

Limit of detection and limit of quantification
LOD and LOQ values were estimated from the linear calibration curve method (16). Under applied chromatographic conditions, the LOD of DIF was 0.2 µg/mL and LOQ of DIF was 0.6 µg/mL. LOD and LOQ of ISO were 1.0 µg/mL and 4.0 µg/mL respectively.

Robustness
There were no significant changes in the retention time, area and symmetry of peaks obtained with the robustness tests. It demonstrates that the developed method has resistance to variances in chromatographic conditions since the results obtained were within the specification limits.

Solution stability
The solution stability results showed that peak areas of DIF and ISO remained approximately same.
up to 48 h and no significant degradation within the indicated period was observed. This indicates that sample solutions were stable at 8°C up to 48 h.

**Stability indicating property of the method**

The stability indicating property of the developed method was evaluated by applying forced degradation procedure to both active substances and drug product. Our first aim was to evaluate the source of unspecified degradation products obtained in the stress study of the drug. For this purpose, each active substance was initially exposed to different stress conditions (Table 5) to investigate their possible degradation products and test their chromatographic behavior.

Following this test, the drug product was subjected to acid and base hydrolysis, oxidation, thermal and humidity degradation conditions and the products of forced degradation were evaluated. The degraded amount was calculated by subtracting the recovered amount in each stress condition from the recovered amount of unspiked samples. There was no detected specified/unspecified impurity above the reporting level in the unspiked drug product.

During acid hydrolysis of a drug product, while ISO was observed to be stable, 87.8% of DIF was degraded. The main degradation product of DIF was diflucortolone impurity, $6\alpha, 9\alpha$-difluoro-16$\alpha$-methyl-1,4-pregnadiene-11β,21-diol-3,20-dione, (Fig. 3, Diflucortolone impurity) at 2.1 min.

Under base hydrolysis conditions, DIF degradation showed an additional unspecified degradation product at RRT of 0.41 in addition to diflucortolone impurity. In the case of ISO, no degradation was observed under basic condition (Fig. 4).

Under the oxidative degradation condition, both DIF and ISO were found to be stable since no additional peaks were detected upon treatment with 30% H$_2$O$_2$.

During the photolysis process, the samples were exposed to UV light for 5 hours. This process led to the degradation of about 2.4% of ISO verified by the appearance of degradation product at RRT of 0.82, while DIF was found to be stable under the same condition (Fig. 5).

After exposing the drug to 80°C for 5 days, ISO was found to be stable. Although the extent of
degradation for DIF was not significant, a small amount of diflucortolone impurity and unspecified degradation product of RRT 0.41 formation was confirmed by the respective chromatograms (Fig. 6). To prove the stability-indicating power of the method; peak purities were checked for ISO, DIF and all degradation products by using a PDA detector in stress samples. Peak purity test results confirmed that all the peaks obtained from the stressed samples were homogeneous and pure. Peak purity index values are summarized in Table 6.

For the calculation of mass balance (% assay + % degradation products), assay of the stressed samples was performed for comparison to the reference standard. The mass balance for the stressed samples was close to 100% (Table 6) proving that there was no overlapping between active substances and degradant peaks. Therefore, it was confirmed that the assay of DIF and ISO was unaffected by the presence of degradation products.

CONCLUSION

Identification, quantification and control of impurities in the drug substance and drug product, are an important part of drug development and regulatory assessment. Accordingly, a simple, rapid and stability-indicating RP-HPLC method was successfully developed for the estimation of DIF and ISO in their topical pharmaceutical combination. The proposed method made use of PDA detector as a tool for peak identity and purity confirmation. The method validation results have proven that the method is selective, precise, accurate, linear and robust. Forced degradation data revealed that the method is free from the interference of placebo, specified and unspecified degradation products. The developed method is stability indicating and this property makes it superior to other previously published HPLC methods. Thus, the described method is suitable for routine analysis and quality control of pharmaceutical preparations containing these drugs either individually or in a combined dosage form.

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