Study On The Methods Of The Moisture Content Determination Of Active Pharmaceutical Ingredients recommended by the British Pharmacopoeia

By

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Declaration

It is hereby declared that

1. The thesis submitted is my own original work while completing degree at Brac University.
2. The thesis does not contain material previously published or written by a third party, except where this is appropriately cited through full and accurate referencing.
3. The thesis does not contain material which has been accepted, or submitted, for any other degree or diploma at a university or other institution.
4. I have acknowledged all main sources of help.

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Approval

The project titled “Study On The Methods Of The Moisture Content Determination Of Active Pharmaceutical Ingredients recommended by the British Pharmacopoeia” submitted by Meghla Islam (17146024) of Spring, 2017 has been accepted as satisfactory in partial fulfillment of the requirement for the degree of Bachelor of Pharmacy (Hons.) on September 01, 2021.

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Ethics Statement

This study does not involve any human or animal trial.

Abstract

The weight of water contained in an object or material is referred to as moisture content (or water content). The karl fischer titration, azeotropic distillation, and the loss on drying method are the three basic methods for determining the moisture content of pharmaceutical compounds. Karl Fischer titration is a classic titration method in chemical analysis that determines tiny amounts of water in a sample using coulometric or volumetric titration. Azeotropic distillation is the technique of using distillation to separate the components of an azeotropic mixture. Loss on drying is a common test method for determining a sample's moisture content, although it can also define as the loss of any volatile matter from the sample. For the determination of water, the maximum of the APIs follow after the loss on drying method.

Keywords: Moisture Content, Karl fischer titration, Azeotropic Distillation, loss on Drying, API

Dedication

Dedicated to my family and specially to my father who died few months ago. He sacrificed his whole life to give me better future and he always wanted to see me as a graduate. He was one of my biggest inspirations.

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List of Acronyms

API	Active Pharmaceutical Ingredient
AZ	Azeotropic
BP	British Pharmacopoeia
KFT	Karl Fischer Titration
LOD	Loss on Drying
UK	United Kingdom

Chapter 1: Introduction

1.1 Literature review

British Pharmacopoeia (BP)

Pharmacopoeial standards are quality criteria for medicinal products and its constituents that are publicly and legally available. The British Pharmacopoeia (BP) is a national pharmacopoeia of the United Kingdom that is published annually and contains a collection of quality standards for medicinal substances that are followed by individuals and organizations involved in pharmaceutical research, development, manufacturing, and testing. By complementing and helping the licensing and inspection processes of the UK's Medicines and Healthcare Products Regulatory Agency, this Pharmacopoeia plays a vital function as a statutory component in the management of medicines (MHRA). The British Pharmacopoeia has set authoritative regulatory standards for pharmaceutical ingredients and therapeutic substances since 1864 (BP,2013). The BP 2013 follows in the footsteps of previous years (BP,2013).

Moisture Content

“Moisture content” generally determine how much water is contained in a product and how that affects physical attributes such as weight, density, viscosity, conductivity, and so on (Measuring Moisture Content & Water Activity - IFT.org, n.d.).Gravimetric, chemical, and physical approaches can all be used to determine moisture or water content (de Caro METTLER TOLEDO et al., n.d.). Using a balance, gravimetric methods determine changes in mass of a sample after or during a specific temperature program (de Caro METTLER TOLEDO et al., n.d.). Chemical procedures are those that include a chemical reaction between water and a reagent (de Caro METTLER TOLEDO et al., n.d.). The amount of reagent consumed can be used to calculate the amount of water transformed during the

reaction(de Caro METTLER TOLEDO et al., n.d.). The Karl Fischer titration is the most well-known procedure based on this idea (de Caro METTLER TOLEDO et al., n.d.). Physical approaches (for example, mass spectrometry and chromatography) are more lengthy and costly process, but they are known to be more selective and appropriate to determine moisture content in extremely small samples (de Caro METTLER TOLEDO et al., n.d.)

The water content in a medicine is measured at several points throughout the production process and in the finished product(Frink& Armstrong, 2016). The physiochemical characteristics of the finished drug formula are affected when pharmaceutical substances contain various quantities of water(Frink& Armstrong, 2016). Microorganisms can thrive in medicine formulations if the water content is increased above a certain level (Frink& Armstrong, 2016). Microorganisms can be toxic, resulting in negative side effects from drugs(Frink& Armstrong, 2016)

Karl Fischer Titration

Over time, a variety of chemical compounds for determining minuscule amounts of water contained in organic solids, pharmaceuticals, and organic solvents have been developed (*Pharmaceutical-Drug-Analysis*, n.d.). The one proposed by Karl Fischer (1935), which is believed to be relatively particular for water, is definitely the most important of them (*Pharmaceutical-Drug-Analysis*, n.d.). It is a method approved by the US Food and Drug Administration for determining water in therapeutic drug formulations(Frink& Armstrong, 2016). This approach is popular as it is water-selective and has a large dynamic range; nevertheless, samples and circumstances must be carefully monitored in order to achieve trustworthy result(Frink& Armstrong, 2016).This titration method refers to the highly specific and selective to water which gives the total water present in a substance.

The Karl Fischer titration is a type of coulometric titration that is very specific(Watson, 2012). Coulometry is a good technique in and of itself, however it is not widely employed in

pharmaceutical analysis (Watson, 2012). According to Faraday's rule, when one molecule reacts with one electron, one mole of analyte responds with 96 485 coulombs of electricity, where coulombs equal 14 amps s (Watson, 2012). The end-point detection in the KFT is based on the following reaction:

$I_2 + 2e^- = 2I^-$

Anhydrous methanol, an anhydrous base (pyridine was originally used, but bases such as imidazole or diethanolamine are now more routinely used), iodine, and sulphur dioxide make up the Karl Fischer reagent (Watson, 2012)

The titration must be buffered within the ideal pH range of 4–7 in order for it to be reliable (Watson, 2012)

The main benefit of this technique is that there is no need for calibration because the procedure is absolute and only dependent on the stoichiometry of the aforementioned equation (*Pharmaceutical-Drug-Analysis*, n.d.). It's worth noting that water concentrations of 10 mcg to 10 mg can be determined in both solid and liquid samples (*Pharmaceutical-Drug-Analysis*, n.d.). The Karl Fischer titration has a number of serious limitations for possible interferences tantamount to erroneous results. Interfering substances include oxidizing agents and reducing agents.

Figure 1Karl Fischer Titration

Loss on Drying Method

The terms "loss on drying" (LOD) and "moisture content" are interchangeable in the context of moisture content determination techniques and methodologies(de Caro METTLER TOLEDO et al., n.d.). The measurement of loss on drying (LOD) is a common method of determining product quality(Bizzi et al., 2011). There are many applications of LOD in industry, particularly in the food and pharmaceutical industries, which use this technique to determine the amount of water that is dispel away under particular conditions (Bizzi et al., 2011). The most commonly used method is to dry under atmospheric pressure in an oven set to a predetermined temperature such as 105 or 130 °C (Bizzi et al., 2011). This process is fairly straightforward, the equipment required is readily available almost in all laboratories, and the decision does not necessitate a high level of analyst experience (Bizzi et al., 2011). The techniques for determining LOD can be carried out under various drying conditions, like pressure and temperature(Bizzi et al., 2011).The drying oven process has the benefit of being a straightforward approach that can be carried out in almost any analytical laboratory

(Bizzi et al., 2011). Despite these benefits, LOD is a time-consuming method because samples must be dried for a period of time (Bizzi et al., 2011). However this method produces repeatable results. The LOD utilizing an oven cannot be considered a quick determination method due to the lengthy process(Bizzi et al., 2011). It has the potential to reduce ordinary analytical throughput.

Figure 2 Loss On Drying

This method has limitations. Loss on drying method requires careful fixing of the temperature and period of heating for each sample, for avoiding melting or degradation of the sample. It is not specific to water alone as it determines a total of water and volatile residual solvents. Also, heating may not allow to leave all the residual solvents or water which are bound as water of

crystallization. Moreover, by heating process, there is a possibility of not releasing the water of crystallization. The results can be affaected by environmental influences and accuracy of weighing.

Azeotropic distillation

Azeotropic (AZ) distillation (refers to the method to separate all the components of an azeotropic mixture by the process of distillation which consists of two or more liquids and they cannot be separated through simple distillation process as the vapours forming via boiling. The azeotropic mixtures require the same proportions of the liquids. However, the azeotropic distillation is a specialized process involving using specific techniques to break the azeotropes.

1.2 Aims of the Study

The aim of this study is to find out how many active pharmaceutical ingredients (API) in the BP 2013 is recommended the loss on drying method for the water content determination and how many active pharmaceutical ingredients (API) is recommended the Karl Fischer titration or azeotropic method for the water content determination. Common features in sample weight and temperature were also identified.

Chapter 2: Methodology

This data analysis has been done by thoroughly reviewing the monographs of the British Pharmacopiea (BP) 2013. By reading the action and indication of all the Pharmaceutical products, the APIs were identified. Then all the APIs were listed into an MS excel sheet and their specification on moisture content was noted down. In this way, all those of the APIs follows loss on drying and those follows Karl Fischer and Azeotropic titration method were filtered and separated into two different sheets. Maximum moisture content was categorized. The mode sample weight and temperature for each category was found.

Chapter 3: Results

Among 828 monographs of APIs only 247 APIs follow Karl Fischer and Azeotropic titration method for the determination of water where most of them follow Karl Fischer titration. About 575 APIs follow loss on drying method to determine the water content.

The following table is relevant for Karl Fischer and Azeotropic Titration.

maximum moisture content, m	**count**	**mode sample weight**
m<=0.5%	60	1
0.5%<m<=1%	24	0.5
1%<m<=2%	22	0.5
2%<m<=5%	60	0.5
5%<m<=10%	46	0.2
10%<m<=20%	27	0.1
20%<m	6	0.1

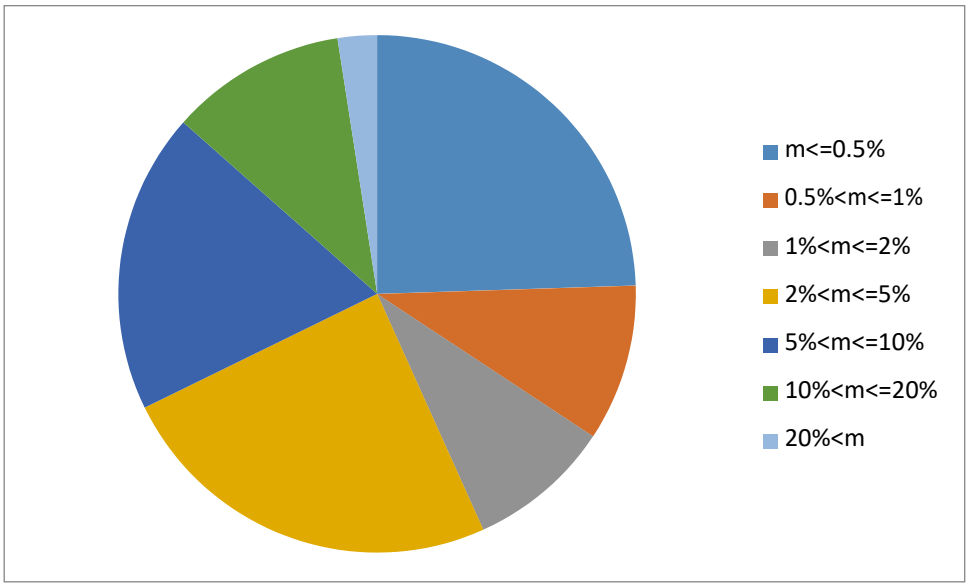

Figure 3 Proportion of drugs analysed by Karl Fischer and Azeotropic Titration as per their maximum allowed moisture content

The following tables are relevant for Loss on Drying mrthod.

maximum moisture content, m	**count**	**mode temperature**
m<=0.5%	347	105
0.5%<m<=1%	75	105
1%<m<=2%	21	105
2%<m<=5%	47	105
5%<m<=10%	25	105
10%<m<=20%	13	105
20%<m	4	105

Table 1 Relation Between Moisture Content and Mode Temperature

	mode sample weight
m<=0.5%	1
0.5%<m<=1%	1
1%<m<=2%	1
2%<m<=5%	1
5%<m<=10%	1
10%<m<=20%	1
20%<m	1

Table 2 Relation Between Moisture Content and Mode Sample Weight

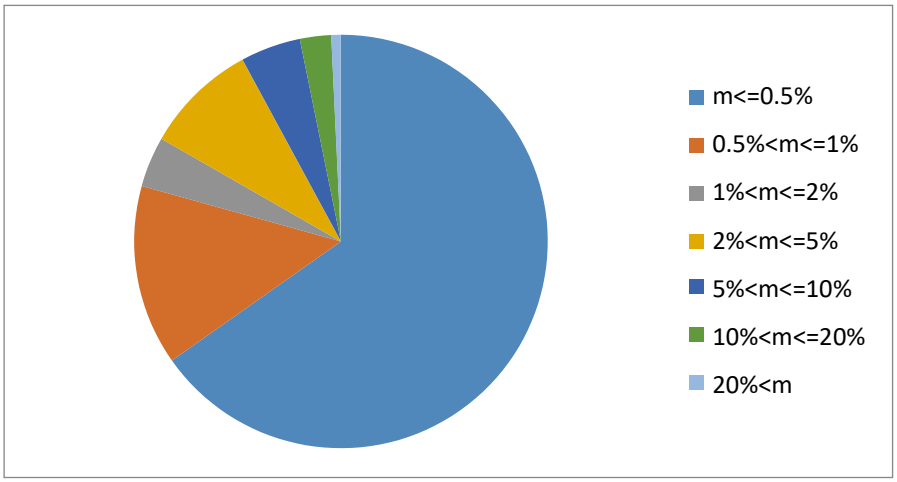

Figure 4 Proportion of drugs analysed by Loss on Drying as per their maximum allowed moisture content

Chapter 4: Discussion

Among 575 APIs which follow loss on drying for the determination of water, about 347 APIs have maximum tolerable moisture content of 0.5% which is determined on 1 g at 105°C.

For LOD method, the pearson correlation coefficient value between maximum moisture content and sample weight isis -0.233 which indicate that the relation between moisture content and weight of the sample is weak. However, since it is negative, weight of the sample decreasesas the maximum allowable % moisture content increases. The pearson correlation coefficient value between maximum moisture content and temperature isis 0.511which indicate that the relation between moisture content and temperature is weak. 105°C was found to be the most common temperature used in LOD method.

Among 246APIs which follow KFT or azeotropic titration for the determination of water, 60 APIs have maximum tolerable moisture content of 0.5% which is determined on 1 g. Also, 60 APIs have maximum tolerable moisture content between 2% to 5% which is determined on 0.5 g.

For Karl Fischer or Azeotropic method, the pearson correlation coefficient value between maximum moisture content and sample weight isis -0.391which indicate that the relation between moisture content and weight of the sample is weak. However, since it is negative, weight of the sample decreasesas the maximum allowable % moisture content increases.

Chapter 5: Conclusion

This study was done to identify how many APIs is recommended to follow Karl Fischer titration or how many APIs is recommended to follow loss on drying method to determine moisture content in the BP 2013. After doing this study we have gotten to know that maximum of the APIs follow loss on drying method for the determination of water. Moreover, we have found some pattern between the temperature and the sample weight used.

References

Bizzi, C. A., Barin, J. S., Hermes, A. L., Mortari, S. R., & Flores, É. M. M. (2011). A Fast Microwave-Assisted Procedure for Loss on Drying Determination in Saccharides.In *J. Braz. Chem. Soc* (Vol. 22, Issue 2).

Frink, L. A., & Armstrong, D. W. (2016). Water Determination in Solid Pharmaceutical Products Utilizing Ionic Liquids and Headspace Gas Chromatography.*Journal of Pharmaceutical Sciences*, *105*(8), 2288–2292.https://doi.org/10.1016/j.xphs.2016.05.014

de Caro METTLER TOLEDO, C. A., Schubnell, M., de Caro, C., & Kunz, R. (n.d.). *"Moisture content, water content, loss on drying-Part 1: What exactly is meant and how are these quantities determined?" Titration techniques in the pharmaceutical analysis View project Water content determination by Karl Fischer Titration View project Thermal Analysis Information for Users User Com 51 Moisture content, water content, loss on drying, Part 1: What exactly is meant and how are these quantities determined?*https://www.researchgate.net/publication/342420649

Pharmaceutical-Drug-Analysis.(n.d.).

Watson, D. G. (2012).*Pharmaceutical Analysis: A Textbook for Pharmacy Students and Pharmaceutical Chemists*.

ASTM E203 – 16 Standard Test Method for Water Using Volumetric Karl Fischer Titration. (n.d.). *Www.Astm.Org*. Retrieved August 24, 2021, from http://www.astm.org/Standards/E203

Azeotropic Distillation - Definition and Detailed Explanation of Azeotropic Distillation. (n.d.). Retrieved August 24, 2021, from https://byjus.com/chemistry/azeotropic-distillation/

Karl Fischer versus Loss-On-Drying | News-Medical. (n.d.). Retrieved August 24, 2021, from https://www.news-medical.net/amp/life-sciences/Karl-Fischer-versus-Loss-On-Drying.aspx

LOD. (n.d.). Retrieved August 24, 2021, from https://lab-training.com/2014/07/water-determination-methods-pharma/?amp

Loss-on-Drying Method (LOD) | News-Medical. (n.d.). Retrieved August 24, 2021, from https://www.news-medical.net/amp/life-sciences/Loss-on-Drying-Method-(LOD).aspx

Measuring Moisture Content & Water Activity - IFT.org. (n.d.). Retrieved August 24, 2021, from https://www.ift.org/news-and-publications/food-technology-magazine/issues/2009/november/columns/laboratory

Moisture Analysis 101 | Loss on Drying Method (LOD) | Way Up Scales | Way Up Scales. (n.d.). Retrieved August 24, 2021, from https://wayupscales.com/blogs/news/moisture-

analysis-loss-on-drying-method

Worling, P. M. (1998). Duncan and Flockhart: the Story of Two Men and a Pharmacy. *Pharmaceutical Historian*, *28*(2), 28–33.

Appendix A.

	Drug Name	Moisture Content (Water)	Moisture Content (Loss on Drying)
1	Acamprosate Calcium		Max 0.4% determined on 1 g at 105 C
2	Acarbose	Max 4% determined on 0.3 g	
3	Acebutolol Hydrochloride		Max 0.5% determined on 1 g at 105 C
4	Aceclofenac		Max 0.5% determined on 1 g at 105 C
5	Acemetacin		Max 0.5% determined on 1 g at 105 C
6	Acenocoumarol		Max 0.5% determined on 1 g at 105 C
7	Acetazolamide		Max 0.5% determined on 1 g at 105 C
8	Acetylcholine chloride		Max 1% determined on 1 g at 105 C
9	Acetylcysteine		Max 1% determined on 1 g at 70 C
10	Acetyldigoxin		Max 1.5% determined on 1 g at 105 C
11	Aciclovir	Max 6% determined on 0.5 g	
12	Acitretin		Max 0.5% determined on 1 g at 100 C
13	Adapalene		Max 0.5% determined on 1 g at

			105 C
14	Adenine		Max 0.5% determined on 1 g at 105 C
15	Adenosine		Max 0.5% determined on 1 g at 105 C
16	Adrenaline/ Epinephrine		Max 0.5% determined on 1 g
17	Adrenaline acid Tartrate		Max 0.5% determined on 1 g
18	Alanine		Max 0.5% determined on 1 g at 105 C
19	Albendazole		Max 0.5% determined on 1 g at 105 C
20	Alcuronium Chloride	Max 5% determined on 0.5 g	
21	Alfadex		Max 11% determined on 1 g at 120 C
22	Alfentanil Hydrochloride	3-4% determined on 0.5 g	
23	Alfuzosin Hydrochloride	Max 0.5% determined on 1 g	
24	Alimemazine Tartrate		Max 0.5% determined on 1 g at 105 C
25	Allantoin		Max 0.1% determined on 1 g at 105 C
26	Allopurinol		Max 0.5% determined on 1 g at 105 C
27	Aloxiprin		Max 2% determined on 1 g
28	Alprazolam		Max 0.5% determined on 1 g at 105 C
29	Alprenolol Hydrochloride		Max 0.5% determined on 1 g at 105 C

30	Alprostadil	Max 0.5% determined on 50 mg	
31	Altizide	Max 0.5% determined on 50 mg	
32	Alverine Citrate		Max 0.5% determined on 1 g at 80 C
33	Amantadine Hydrochloride	Max 0.5% determined on 2 g	
34	Ambroxol Hydrochloride		Max 0.5% determined on 1 g at 105 C
35	Amfetamine Sulphate		Max 1% determined on 1 g at 105 C
36	Amiloride hydrochloride	11-13% determined on 0.2 g	
37	Aminobenzoic Acid	Max 5% determined on 0.5 g	
38	Amilocaproic Acid		Max 0.5% determined on 1 g at 105 C
39	Aminoglutethimide		Max 0.5% determined on 1 g at 105 C
40	Aminophylline	Max 1.5% determined on 0.5 g	
41	Aminophylline Hydrate	3-8% determined on 1 g	
42	Amiodarone Hydrochloride		Max 0.5% determined on 1 g at 50 C
43	Amisulpride		Max 0.5% determined on 1 g at 105 C
44	Amitriptyline Embonate	Max 5% determined on 0.5 g	
45	Amitriptyline		Max 0.5% determined on 1 g at

	Hydrochloride		105 C
46	Amlodipine Besilate	Max 0.5% determined on 1 g	
47	Ammonium Chloride		Max 1% determined on 1 g at 105 C
48	Amobarbital		Max 0.5% determined on 1 g at 105 C
49	Amobarbital Sodium		Max 3% determined on 0.5 g at 130 C
50	Amoxicillin Sodium	Max 3% determined on 0.4 g	
51	Amoxicillin Trihydrate	11.5-14.5% determined on0. 1 g	
52	Amphotericin		Max 5% determined on 1 g at 60 C
53	Ampicillin	Max 2% determined on 0.3 g	
54	Ampicillin Sodium	Max 2% determined on 0.3 g	
55	Ampicillin Trihydrate	12-15% determined on 0.1 g	
56	Antazoline Hydrochloride		Max 0.5% determined on 1 g at 105 C
57	Apomorphine Hydrochloride Hemihydrate		2.5-4.2% determined on 1 g at 105 C
58	Articaine Hydrochloride		Max 0.5% determined on 1 g at 105 C
59	Aspirin		Max 0.5% determined on 1 g
60	Atenolol		Max 0.5% determined on 1 g at 105 C
61	Atorvastatin Calcium	3.5-5.5% determined on 0.130	

	Trihydrate	g	
62	Atrcurium Besilate	Max 5% determined on 1 g	
63	Atropine		Max 0.2% determined on 1 g at 105 C
64	Atropine Sulphate	2-4% determined on 0.5 g	
65	Activated Attapulgite		Max 4% determined on 1 g at 105 C
66	Azapropazone	10-11.5% determined on 0.25 g	
67	Azathioprine		Max 1% determined on 0.5 g at 105 C
68	Azelastine Hydrochloride		Max 0.5% determined on 1 g at 105 C
69	Azithromycin	1.8-6.5% determined on 0.2 g	
70	Bacampicillin Hydrochloride	Max 0.8% determined on 0.3 g	
71	Baclofen	Max 1% determined on 1 g	
72	Bambuterol Hydrochloride	Max 0.5% determined on 0.5 g	
73	Barbital		Max 0.5% determined on 1 g at 105 C
74	Anhydrous Beclometasone Dipropionate		Max 0.5% determined on 1 g at 105 C
75	Beclometasone Dipropionate Monohydrate		2.8-3.8% determined on 1 g at 105 C

76	Benazepril Hydrochloride		Max 1.5% determined on 1 g at 105 C
77	Bendroflumethaizide		Max 0.5% determined on 1 g at 105 C
78	Benorilate		Max 0.5% determined on 1 g at 105 C
79	Benperidol		Max 0.5% determined on 1 g at 105 C
80	Benserazide Hydrochloride	Max 1% determined on 0.5 g	
81	Benzathine Benzylpenicillin	5-8% determined on 0.3 g	
82	Benzatropine Mesilate		Max 5% determined on 1 g at 105 C
83	Benzbromarone		Max 0.5% determined on 1 g at 50 C
84	Benzocaine		Max 0.5% determined on 1 g
85	Benzydamine Hydrochloride		Max 0.5% determined on 1 g at 50 C
86	Benzylpenicillin Potassium		Max 1% determined on 1 g at 105 C
87	Benzylpenicillin Sodium		Max 1% determined on 1 g at 105 C
88	Betahistine Dihydrochloride		Max 1% determined on 1 g at 105 C
89	Betahistine Mesilate	Max 2% determined on 0.5 g	
90	Betamethasone		Max 0.5% determined on 0.5 g at

			105 C
91	Betamethasone Acetate	Max 4% determined on 0.1 g	
92	Betamethasone dipropionate		Max 1% determined on 0.5 g at 105 C
93	Betamethasone Sodium Phosphate	Max 8% determined on 0.2 g	
94	Betamethasone Valerate		Max 0.5% determined on 1 g at 105 C
95	Betaxolol Hydrochloride		Max 0.5% determined on 1 g at 105 C
96	Bezafibrate		Max 0.5% determined on 1 g at 105 C
97	Bicalutamide		Max 0.5% determined on 1 g at 105 C
98	Bifonazole		Max 0.5% determined on 1 g at 105 C
99	Biotin		Max 1% determined on 1 g at 105 C
100	Biperidin Hydrochloride		Max 0.5% determined on 1 g at 105 C
101	Bisoprolol Fumarate	Max 0.5% determined on 1 g	
102	Bleomycin Sulfate		Max 3% determined on 50 mg at 60 C
103	Bretylium Tosilate		Max 3% determined on 50 mg at 60 C
104	Bromazepam		Max 0.2% determined on 1 g at 80 C

105	Bromhexine Hydrochloride		Max 1% determined on 1 g at 105 C
106	Bromocriptine Mesilate		Max 3% determined on 0.5 g at 80 C
107	Bromperidol		Max 0.5% determined on 1 g at 105 C
108	Bromperidol decanoate		Max 0.5% determined on 1 g at 30 C
109	Brompheniramine Maleate		Max 0.5% determined on 1 g at 105 C
110	Brotizolam		Max 0.5% determined on 1 g at 105 C
111	Buclizine Hydrochloride		Max 1% determined on 1 g at 100-105 C
112	Budesonide		Max 0.5% determined on 1 g at 105 C
113	Bufexamac		Max 0.5% determined on 1 g at 80 C
114	Buflomedil Hydrochloride		Max 0.5% determined on 1 g at 105 C
115	Bumetanide		Max 0.5% determined on 1 g at 105 C
116	Bupivacaine Hydrochloride		4.5-65% determined on 1 g at 105 C
117	Buprenorphine		Max 1% determined on 1 g at 105 C
118	Buprenorphine		Max 1% determined on 1 g at

	Hydrochloride		105 C
119	Buserelin	Max 4% determined on 80 mg	
120	Buspirone Hydrochloride		Max 0.5% determined on 1 g at 105 C
121	Busulfan		Max 2% determined on 1 g at 60 C
122	Caberogoline	Max 0.5% determined on 1 g	
123	Caffeine		Max 0.5% determined on 1 g at 105 C
124	Calcifediol	3.8-5% determined on 10 mg	
125	Anhydrous Calcipotriol		Max 1% determined on 50 mg at 105 C
126	Calcipotriol Monohydrate	3.3-5% determined on 0.1 g	
127	Calcitonin	Max 10%	
128	Calcium Carbonate		Max 2% determined on 1 g at 190-210 C
129	Calcium Folinate	Max 17% determined on 0.1 g	
130	Calcium Glucoheptone		Max 5% determined on 1 g at 105 C
131	Anhydrous Calcium Gluconate		Max 2% determined on 1 g at 105 C
132	Anhydrous Calcium Lactate		Max 3% determined on 0.5 g at 125 C
133	Calcium Lactate Monohydrate		5-8% determined on 0.5 g at 125 C
134	Calcium Lactate pentahydrate		22-27% determined on 0.5 g at 125 C

135	Calcium Lactate Trihydrate		15-20% determined on 0.5 g at 125 C
136	Calcium Levofolinate Pentahydrate	10-17% determined on 0.2 g	
137	Calcium Levulinate Dihydrate		11-12.5% determined on 0.2 g at 105 C
138	Calcium Pantothenate		Max 3% determined on 1 g at 105 C
139	Candesartan Cilexetil	Max 0.3% determined on 60 mg	
140	Captopril		Max 1% determined on 1 g at 60 C
141	Carbachol		Max 1% determined on 1 g at 105 C
142	Carbamazepine		Max 0.5% determined on 1 g at 105 C
143	Carbasalate Calcium	Max 0.1% determined on 0.1 g	
144	Carbenoxolone Sodium	Max 4% determined on 0.6 g	
145	Carbidopa		6.9-7.9% determined on 1 g at 105 C
146	Carbimazole		Max 0.5% determined on 1 g
147	Carbocisteine		Max 0.5% determined on 1 g at 105 C
148	Carboprost Trometamol	Max 0.5% determined on 50 mg	
149	Carisoprodol		Max 0.5% determined on 1 g at

			60 C
150	Carmustine		Max 1% determined on 0.5 g
151	Carteolol Hydrochloride		Max 0.5% determined on 1 g at 105 C
152	Carvedilol		Max 0.5% determined on 1 g at 105 C
153	Cefaclor	3-6.5% determined on 0.2 g	
154	Cefadroxil Monohydrate	4-6% determined on 0.2 g	
155	Cefalexin Monohydrate	4-8% determined on 0.3 g	
156	Cefalotin Sodium	Max 1.5% determined on 0.5 g	
157	Cefamandole Nafate	Max 2% determined on 0.5 g	
158	Cefapirin Sodium	Max 2% determined on 0.3 g	
159	Cefatrizine Propylene Glycol	Max 1.5% determined on 0.5 g	
160	Cefazolin Sodium	Max 6% determined on 0.3 g	
161	Cefepime Hydrochloride Monohydrate	3-4.5% determined on 0.4 g	
162	Cefixime	9-12% determined on 0.2 g	
163	Cefoperazone Sodium	Max 5% determined on 0.2 g	
164	Cefotaxime Sodium	Max 3% determined on 0.3 g	
165	Cefoxitin Sodium	Max 1% determined on 0.5 g	
166	Cefpodoxime proxetil	Max 2.5% determined on 0.5 g	
167	Cefprozil Monohydrate	3.5-6.5% determined on 0.5 g	
168	Cefradine	Max 6% determined on 0.3 g	
169	Ceftazidime pentahydrate	13-15% determined on 0.1 g	

170	Ceftriaxone Sodium	8-11% determined on 0.1 g	
171	Cefuroxime Axetil	Max 1.5% determined on 0.4 g	
172	Cefuroxime Sodium	Max 3.5% determined on 0.4 g	
173	Celecoxib	Max 0.5% determined on 0.4 g	
174	Celiprolol Hydrochloride		Max 0.5% determined on 1 g at 105 C
175	Cetrizine Hydrochloride		Max 0.5% determined on 1 g at 105 C
176	Chalk		Max 1% determined on 1 g at 105 C
177	Chenodeoxycholic Acid		Max 1.5% determined on 1 g at 105 C
178	Chlorambucil	Max 0.5% determined on 0.1 g	
179	Chloramphenicol		Max 0.5% determined on 1 g at 105 C
180	Chloramphenicol Palmitate		Max 0.5% determined on 1 g at 80 C
181	Chloramphenicol Sodium Succinate	Max 2% determined on 0.5 g	
182	Chlorcyclizine Hydrochloride		Max 1% determined on 1 g at 130 C
183	Chlordiazepoxide		Max 0.5% determined on 1 g at 105 C

184	Chlordiazepoxide Hydrochloride		Max 0.5% determined on 1 g at 60 C
185	Chlorhexidine Acetate		Max 3.5% determined on 1 g at 105 C
186	Chlorhexidine Hydrochloride		Max 1% determined on 1 g at 105 C
187	Chloroquine Phosphate		Max 2% determined on 1 g at 105 C
188	Chloroquine Sulfate	3-5% determined on 0.5 g	
189	Chlorphenamine Maliate		Max 0.5% determined on 1 g at 105 C
190	Chlorpromazine		Max 0.5% determined on 1 g at 0.7 kPa
191	Chlorpromazine Hydrochloride		Max 0.5% determined on 1 g at 105 C
192	Chlorpropamide		Max 0.5% determined on 1 g at 100-105 C
193	Chlorprothixene Hydrochloride		Max 0.5% determined on 1 g at 60 C
194	Chhortalidone		Max 0.5% determined on 1 g at 105 C
195	Chlortetracycline Hydrochloride	Max 2% determined on 0.3 g	
196	Choline Theophyllinate		Max 0.5% determined on 1 g at 105 C
197	Chondrotin Sulfate Sodium		Max 12% determined on 1 g at 105 C

198	Chorionic Gonadotrophin	Max 5%	
199	Chymotrypsin		Max 5% determined on 1 g at 60 C
200	Ciclopirox		Max 1.5% determined on 1 g at 60 C
201	Ciclopirox Olamine		Max 1.5% determined on 1 g at high vacuum
202	Ciclosporin		Max 2% determined on 1 g at 60 C
203	Cilastatin sodium	Max 2% determined on 0.5 g	
204	Cilazapril	3.5-5% determined on 0.3 g	
205	Cimetidine		Max 0.5% determined on 1 g at 105 C
206	Cimetidine Hydrochloride		Max 1% determined on 1 g at 105 C
207	Cinochocaine Hydrochloride		Max 2% determined on o.5 g at 60 C
208	Cinnarizine		Max 0.5% determined on 1 g at 60 C
209	Ciprofibrate	Max 0.5% determined on 1 g	
210	Ciprofloxacin		Max 1% determined on 1 g at 120 C
211	Ciprofloxacin Hydrochloride	Max 6.7% determined on 0.2 g	
212	Citalopram Hydrobromide		Max 0.5% determined on 1 g at 105 C
213	Citalopram		Max 0.5% determined on 1 g at

	Hydrochloride		105 C
214	Cladribine	Max 0.5% determined on 0.1 g	
215	Clarithromycin	Max 2% determined on 0.5 g	
216	Clebopride Malate		Max 0.5% determined on 1 g at 105 C
217	Clemastine Fumarate		Max 0.5% determined on 1 g at 105 C
218	Clebuterol Hydrochloride	Max 1% determined on 0.5 g	
219	Clindamycin Hydrochloride	3-6% determined on 0.5 g	
220	Clindamycin Phosphate	Max 6% determined on 0.25 g	
221	Clioquinol		Max 0.5% determined on 1 g at 0.7 pKa
222	Clobazam		Max 0.5% determined on 1 g at 105 C
223	Clobetasol Propionate		Max 0.5% determined on 1 g at 105 C
224	Clobetasone Butyrate		Max 0.5% determined on 1 g at 105 C
225	Clofazimine		Max 0.5% determined on 1 g at 105 C
226	Clomethiazole Edisilate		Max 0.5% determined on 1 g at 50 C
227	Clomifene Citrate	Max 1% determined on 1 g	

228	Clomipramine Hydrochloride		Max 0.5% determined on 1 g at 50 C
229	Clonazepam		Max 0.5% determined on 1 g at 50 C
230	Clonidine Hydrochloride		Max 0.5% determined on 1 g at 50 C
231	Clopamide		Max 2.5% determined on 1 g at 50 C
232	Clopidogrel Hyrogen Sulfate	Max 0.5% determined on 1 g	
233	Clotrimazole		Max 0.5% determined on 1 g at 105 C
234	Cloxacillin Sodium	3-4.5% determined on 0.3 g	
235	Clozapine		Max 0.5% determined on 1 g at 105 C
236	Cocaine		Max 0.5% determined on 1 g at 80 C
237	Cocaine Hydrochloride		Max 0.5% determined on 1 g at 105 C
238	Codeine		4-6%% determined on 1 g at 105 C
239	Codeine Hydrochloride	8-10.5% determined on 0.25 g	
240	Codeine Phosphate		1.5-3% determined on 1 g at 105 C
241	Codeine Phosphate Sesquihydrate		5-7.5% determined on 0.5 g at 105 C
242	Codergocrine Mesilate		Max 5% determined on 0.5 g at

			120 C
243	Colchicine	Max 2% determined on 0.5 g	
244	Colestyramine		Max 12% determined on 1 g at 70 C
245	Colistimethate Sodium		Max 5% determined on 1 g at 60 C
246	Colistin Sulfate		Max 3.5% determined on 1 g at 60 C
247	Anhydrous Copper Sulfate		Max 1% determined on 0.5 g at 240-260 C
248	Copper Sulfate Pentahydrate		35-36.5% determined on 0.5 g at 240-260 C
249	Cortisone Acetate		Max 0.5% determined on 0.5 g at 105 C
250	Cyclizine		Max 1% determined on 1 g at 80 C
251	Cyclizine Hydrochloride		Max 1% determined on 1 g at 130 C
252	Cyclopenthiazide		Max 0.5% determined on 1 g at 105 C
253	Cyclopentolate Hydrochloride		Max 0.5% determined on 1 g at 105 C
254	Cyproheptadine Hydrochloride	7-9% determined on 0.2 g	
255	Cyproterone Acetate		Max 0.5% determined on 1 g at 80 C
256	Cytarabine		Max 1% determined on 0.25 g at

			60 C
257	Dalteparin		Max 5% determined on 1 g at 60 C
258	Danaparoid Sodium		Max 5% determined on 0.5 g at 60 C
259	Dantrolene sodium	14-17% determined on 0.2 g	
260	Dapsone		Max 1.5% determined on 1 g at 105 C
261	Daunorubicin Hydrochloride	Max 3% determined on 0.1 g	
262	Debrisoquine Sulfate		Max 0.5% determined on 1 g at 105 C
263	Demeclocycline	Max 3% determined on 0.1 g	
264	Deptropine citrate		Max 2% determined on 1 g at 105 C
265	Desipramine Hydrochloride		Max 0.5% determined on 1 g at 105 C
266	Deslaniside		Max 5% determined on 0.5 g at 105 C
267	Desmopressin	Max 6% determined on 20 mg	
268	Desogestrel		Max 0.5% determined on 1 g
269	Desoxycortone Acetate		Max 0.5% determined on 0.5 g at 105 C
270	Dexamethasone		Max 0.5% determined on 0.5 g at 105 C
271	Dexamethasone Acetate		Max 0.5% determined on 0.5 g at 105 C

272	Dexamethasone Isonicotinate		Max 1% determined on 1 g at 102 C
273	Dexamethasone Sodium Phosphate	Max 13% determined on 0.2 g	
274	Dexamfetamine Sulfate		Max 1% determined on 1 g at 105 C
275	Dexchlorpheniramine Maleate		Max 0.5% determined on 1 g at 65 C
276	Dextran 1 for Injection		Max 5% determined on 5 g at 105 C
277	Dextran 40 for Injection		Max 7% determined on 0.2 g at 105 C
278	Dextran 60 for Injection		Max 7% determined on 0.2 g at 105 C
279	Dextran 70 for Injection		Max 7% determined on 0.2 g at 105 C
280	Dextromethorphan Hydrochloride	4-5.5% determined on 0.2 g	
281	Dextromoramide Tartrate		Max 0.5% determined on 1 g at 105 C
282	Dextropropoxyphene Hydrochloride		Max 1% determined on 1 g at 105 C
283	Dextropropoxyphene Napsilate	3-5% determined on 0.5 g	
284	Diamorphine Hydrochloride		3-4.5% determined on 1 g at 105 C
285	Diazepam		Max 0.5% determined on 1 g at

			60 C
286	Diazoxide		Max 0.5% determined on 1 g at 105 C
287	Dichlorophen		Max 1% determined on 1 g at 105 C
288	Diclofenac diethylamine		Max 0.5% determined on 1 g
289	Diclofenac Potassium		Max 0.5% determined on 1 g at 105 C
290	Diclofenac Sodium		Max 0.5% determined on 1 g at 105 C
291	Dicloxacillin Sodium	3-4.5% determined on 0.3 g	
292	Dicycloverine Hydrochloride		Max 1% determined on 1 g at 105 C
293	Didanosine	Max 2% determined on 0.5 g	
294	Diethylamine Salicylate		Max 0.1% determined on 1 g at 60 C
295	Diethylcarbamazine Citrate		Max 0.5% determined on 1 g at 60 C
296	Diethylstibestrol		Max 0.5% determined on 1 g at 105 C
297	Diflucortolone Valerate		Max 0.5% determined on 1 g at 105 C
298	Diflunisal		Max 0.3% determined on 1 g at 60 C
299	Digitoxin		Max 1.5% determined on 0.5 g at 105 C
300	Digoxin		Max 1% determined on 0.5 g

301	Hydrated Dihydralazine Sulfate		13-15% determined on 0.5 g at 50 C
302	Dihydrocodeine Tartrate	Max 0.7% determined on 1 g	
303	Dihydroergocristine Mesilate		Max 3% determined on o.5 g at 80 C
304	Dihydroergotamine Mesilate		Max 4% determined on 0.5 g at 105 C
305	Dihydroergotamine Tartrate		Max 5% determined on 0.2 g at 105 C
306	Diloxanide Furoate		Max 0.5% determined on 1 g at 105 C
307	Diltiazem Hydrochloride		Max 0.5% determined on 1 g at 105 C
308	Dimenhydrinate		Max 0.5% determined on 1 g
309	Dimentindene Maleate		Max 0.1% determined on 1 g at 105 C
310	Dinoprost Trometamol	Max 1% determined on 0.5 g	
311	Dinoprostone	Max 0.5% determined on 0.5 g	
312	Diphenhydramine Hydrochloride		Max 0.5% determined on 1 g at 105 C
313	Diphenoxylate Hydrochloride		Max 0.5% determined on 1 g at 105 C
314	Diphenylpyraline Hydrochloride		Max 1% determined on 1 g at 105 C
315	Dipipanone Hydrochloride	4-5% determined on 0.5 g	

316	Dipivefrine Hydrochloride		Max 1% determined on 1 g at 60 C
317	Dipotassium Clorazepate		Max 0.5% determined on 1 g at 60 C
318	Diprophylline		Max 0.5% determined on 1 g at 105 C
319	Dipyridamole		Max 0.5% determined on 1 g at 105 C
320	Dipyrone		4.9-5.3% determined on 1 g at 105 C
321	Dirithromycin	Max 1% determined on 1 g	
322	Disopyramide		Max 0.5% determined on 1 g at 80 C
323	Disopyramide Phosphate		Max 0.5% determined on 1 g at 105 C
324	Disulfiram		Max 0.5% determined on 1 g at 50 C
325	Dithranol		Max 0.5% determined on 1 g at 105 C
326	Dobutamine Hydrochloride		Max 0.5% determined on 1 g at 105 C
327	Anhydrous Docetaxel	Max 1.5%	
328	Domperidone		Max 0.5% determined on 1 g at 105 C
329	Domperidone Maleate		Max 0.5% determined on 1 g at 105 C
330	Dopamine Hydrochloride		Max 0.5% determined on 1 g at

			105 C
331	Dorzolamide Hydrochloride		Max 0.5% determined on 1 g at 105 C
332	Dosulepin Hydrochloride		Max 0.5% determined on 1 g at 105 C
333	Doxapram Hydrochloride		3-4.5% determined on 1 g at 105 C
334	Doxazocin Mesilate	Max 1.5% determined on 0.5 g	
335	Doxepin Hydrochloride		Max 0.5% determined on 1 g at 105 C
336	Doxorubicin Hydrochloride	Max 4% determined on 0.1 g	
337	Doxycycline Hyclate	1.4-2.8% determined on 1.2 g	
338	Doxycycline Monohydrate	3.6-4.6% determined on 0.2 g	
339	Doxylamine Succinate	Max 0.5% determined on 2 g	
340	Droperidol		Max 0.5% determined on 1 g at 105 C
341	Drospirenone		Max 0.5% determined on 1 g at 105 C
342	Duloxetine Hydrochloride		Max 0.5% determined on 1 g at 105 C
343	Dydrogesterone		Max 0.5% determined on 1 g at 105 C
344			
345	Halofantrine		Max 0.5% determined on 1.000 g

	Hydrochloride		at 105 C
346	Haloperidol		Max 0.5% determined on 1.000 g at 105 C
347	Haloperidol Decanoate		Max 0.5% determined on 1.000 g at 30 C
348	Heparin Calcium		Max 8.0% determined on 1.000 g at 60 C
349	Heparin Sodium		Max 8.0% determined on 1.000 g at 60 C
350	Low-molecular-weight Heparin		Max 10% determined on 1.000 g at 60 C
351	Heptaminol Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
352	Hexachlorophene		Max 1.0% determined on 1 g at 105 C
353	Hexamidine Isetionate		Max 0.5% determined on 1.000 g at 105 C
354	Hexylresorcinol	Max 0.5% determined on 1.000 g	
355	Histidine		Max 0.5% determined on 1.000 g at 105 C
356	Histidine Hydrochloride Monohydrate		7-10 % determined on 1.000 g at 145 C
357	Homatropine Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
358	Homatropine Methylbromide		Max 0.5% determined on 1.000 g at 105 C

359	Hyaluronidase		Max 5% determined on 0.5 g at 60 C
360	Hydralazine Hydrochloride		Max 0.5% determined on 1.000 g
361	Hydrochlorothiazide		Max 0.5% determined on 1.000 g at 105 C
362	Hydrocodone Hydrogen Tartrate Hydrate	7-12% determined on 0.1 g	
363	Hydrocortisone		Max 1% determined on 1.000 g at 105 C
364	Hydrocortisone Acetate		Max 0.5% determined on 1.000 g at 60 C
365	Hydrocortisone Hydrogen Succinate		Max 4% determined on 1.000 g at 105 C
366	Hydrocortisone Sodium Phosphate	Max 10% determined on 0.4 g	
367	Hydroflumethiazide		Max 0.5% determined on 1.000 g at 105 C
368	Hydromorphone Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
369	Hydrotalcite		40-50% determined on 1 g at 800 C
370	Hydroxocobalamin Acetate		8-12% determined on 0.4 g at 105 C
371	Hydroxocobalamin Chloride		8-12% determined on 0.4 g at 105 C
372	Hydroxocobalamin		8-16% determined on 0.4 g at

	Sulfate		105 C
373	Hydroxycarbamide	Max 0.5% determined in on 2 g	
374	Hydroxychloroquine Sulftate		Max 2% determined on 1.000 g at 105 C
375	Hydroxyzine Hydrochloride		Max 5% determined on 1.000 g at 105 C
376	Hymecromone		Max 0.5% determined on 1.000 g at 105 C
377	Hyoscine	Max 0.5% determined on 1.000 g	
378	Hyoscine Butylbromide		Max 2.5% determined on 0.5 g at 105 C
379	Hyoscine Hydrobromide	10-13% determined on 0.2 g	
380	Hyoscyamine Sulfate	2-5.5% determined on 0.5 g	
381	Hypromellose		Max 5% determined on 1.000 g at 105 C
382	Hypromellose Phthalate	Max 5% determined on 0.5 g	
383	Ibuprofen		Max 0.5% determined on 1.000 g
384	Idoxuridine		Max 1% determined on 1.000 g at 60 C
385	Ifosfamide	Max 0.5% determined on 1.000 g	
386	Imipenem	5-8% determined on 0.2 g	
387	Imipramine Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
388	Indapamide	Max 3% determined on 0.1 g	

389	Indinavir Sulfate	Max 1.5% determined on 0.5 g	
390	Indometacin		Max 0.5% determined on 1.000 g at 105 C
391	Indoramin Hydrochloride		Max 0.5% determined on 1.000 g at 100-105 C
392	myo-Inositol	Max 0.5% determined on 1.000 g	
393	Inositol Nicotinate		Max 0.5% determined on 1.000 g at 105 C
394	Insulin Aspart		Max 10% determined on 0.2 g at 105 C
395	Bovine Insulin		Max 10% determined on 0.2 g at 105 C
396	Human Insulin		Max 10% determined on 0.2 g at 105 C
397	Insulin Lispro		Max 10% determined on 0.2 g at 105 C
398	Porcine Insulin		Max 10% determined on 0.2 g at 105 C
399	Ipratropium Bromide	3.9-4.4% determined on 0.5 g	
400	Irbesartan	Max 0.5% determined on 1.000 g	
401	Isoconazole		Max 0.5% determined on 1.000 g at 105 C
402	Isoconazole Nitrate		Max 0.5% determined on 1.000 g at 105 C

403	Isoflurane	Max 1 mg/ml determined on 10 ml	
404	Isoleucine		Max 0.5% determined on 1.000 g at 105 C
405	Isometheptene		Max 0.5% determined on 1.000 g at 60 C
406	Isoniazid		Max 0.5% determined on 1.000 g at 105 C
407	Isoprenaline Hydrochloride		Max 1% determined on 1.000 g at 15-25 C
408	Isoprenaline Sulfate	5-7.5% determined on 0.2 g	
409	Isotretinoin		Max 0.5% determined on 1.000 g
410	Isoxsuprine Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
411	Isradipine		Max 0.2% determined on 1.000 g at 105 C
412	Itraconazole		Max 0.5% determined on 1.000 g at 105 C
413	Ivermectin	Max 1% determined on 0.5 g	
414	Josamycin		Max 1% determined on 1.000 g at 60 C
415	Josamycin Propionate		Max 1% determined on 1.000 g at 60 C
416	Kanamycin Acid Sulfate		Max 5% determined on 1.000 g at 60 C
417	Kanamycin Sulfate		Max 1.5% determined on 1.000 g

			at 60 C
418	Light Kaolin		Max 1.5% determined on 1.000 g at 105 C
419	Ketamine Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
420	Ketobemidone Hydrochloride	Max 1% determined on 0.5 g	
421	Ketoconazole		Max 0.5% determined on 1.000 g at 105 C
422	Ketoprofen		Max 0.5% determined on 1.000 g at 60 C
423	Ketorolac Trometamol		Max 0.5% determined on 1.000 g at 60 C
424	Ketotifen Fumarate		Max 0.5% determined on 1.000 g at 105 C
425	Labetalol Hydrochloride		Max 1% determined on 1.000 g at 105 C
426	Lacidipine	Max 0.2% determined on 0.5 g	
427	Lamivudine		Max 0.5% determined on 1.000 g at 105 C
428	Lamotrigine		Max 0.5% determined on 2 g at 105 C
429	Lansoprazole	0.1% determined on 0.15-0.2 g	
430	Leflunomide		Max 0.3% determined on 1.000 g at 60 C

431	Letrozole	Max 0.3% determined on 1.000 g	
432	Leucine		Max 0.5% determined on 1.000 g at 105 C
433	Leuprorelin	Max 5%	
434	Levamisole Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
435	Levetiracetam	Max 0.5% determined on 0.3 g	
436	Levobunolol Hydrochloride		Max 0.5% determined on 1.000 g at 110 C
437	Levocabastine Hyrochloride		Max 0.5% determined on 1.000 g at 105 C
438	Levocarnitine	Max 1% determined on 2 g	
439	Levodopa		Max 1% determined on 0.500 g at 105 C
440	Levodropropizine		Max 1% determined on 0.500 g at 60 c
441	Levomepromazine Hydrochloride		Max 1% determined on 1 g at 105 C
442	Levomepromazine maleate		Max 0.5% determined on 1.000 g at 105 C
443	Levomethadone Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
444	Levonorgestrel		Max 0.5% determined on 1.000 g at 105 C
445	Levothyroxine Sodium	6-12% determined on 0.1 g	

446	Lidocaine	Max 1% determined on 1 g	
447	Lidocaine Hydrochloride	5.5-7% determined on 0.25 g	
448	Lincomycin hydrochloride	3.1-4.6% determined on 0.5 g	
449	Liothyronine Sodium		Max 4% determined on 0.5 g at 60 C
450	Linsinopril dihydrate	8-9.5% determined on 0.2 g	
451	Lithium citrate	24-27% determined on 0.1 g	
452	Lobeline Hydrochloride		Max 1% determined on 1 g
453	Lofepramine Hydrochloride		Max 0.5% determined on 1.000 g at 100 C
454	Lomustine		Max 0.5% determined on 1.000 g at 0.7 kPa
455	Loperamide Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
456	Loperamide Oxide Monohydrate	3.4-4.2% determined on 0.5 g	
457	Loprazolam Mesilate		2.5-4.5% determined on 1 g at 100-105 C
458	Loratadine		Max 0.5% determined on 1.000 g at 105 C
459	Lorazepam		Max 0.5% determined on 1.000 g at 105 C
460	Lormetazepam		Max 1% determined on 1.000 g at 105 C
461	Losartan Potassium		Max 0.5% determined on 1.000 g at 105 C

462	Lovastatin		Max 0.5% determined on 1.000 g at 60 C
463	Lymecyline	Max 5% determined on 0.2 g	
464	Lynestrenol		Max 0.5% determined on 0.5 g at 105 C
465	Lysine Acetate		Max 0.5% determined on 1.000 g at 60 C
466	Lysine Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
467	Magaldrate		10-20% determined on 1 g at 200 C
468	Magnesium Acetate Tetrahydrate	33-35% determined on 0.1 g	
469	Magnesium chloride Hexahydrate	51-55% determined on 50 mg	
470	Malathion	Max 0.1% determined on 2 g	
471	Mannitol	Max 0.5% determined in on 1 g	
472	Maprotiline Hydrochloride		Max 1% determined on 1.000 g at 80 C
473	Mebendazole		Max 0.5% determined on 1.000 g at 105 C
474	Mebeverine Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
475	Meclozine Hydrochloride	Max 0.5% determined in on 1 g	
476	Medroxyprogesterone		Max 1% determined on 0.5 g at

	Acetate		105 C
477	Mefenamic Acid		Max 0.5% determined on 1.000 g at 105 C
478	Mefloquine Hydrochloride	Max 3% determined in on 1 g	
479	Megestrol Acetate		Max 0.5% determined on 1.000 g at 105 C
480	Meglumine		Max 0.5% determined on 1.000 g at 105 C
481	Melatonin	Max 0.3% determined on 2.000 g	
482	Meloxicam		Max 0.5% determined on 1.000 g at 105 C
483	Melphalan	Max 5% determined on 0.2 g	
484	Menadiol sodium phosphate	19-21.5% determined on 0.25 g	
485	Menadione		Max 0.5% determined on 1.000 g at 2-3 kPa
486	Menotrophin	Max 5% determined on 4 mg	
487	Mepovacaine Hydrochloride		Max 1% determined on 1.000 g at 105 C
488	Meprobamate		Max 0.5% determined on 1.000 g at 60 C
489	Meptazinol hydrochloride		Max 0.5% determined on 1.000 g at 105 C
490	Mepyramine Maleate		Max 0.25% determined on 1.000 g at 80 C

491	Mercaptopurine	10-12% determined on 0.25 g	
492	Meropenem Trihydrate	11.4-13.4% determined on 0.1 g	
493	Mesalazine		Max 0.5% determined on 1.000 g at 105 C
494	Mesna		Max 1% determined on 1.000 g at 60 C
495	Mesterolone		Max 0.5% determined on 1.000 g at 105 C
496	Mestranol		Max 1% determined on 0.5 g at 105 C
497	Metaraminol Tartrate		Max 0.5% determined on 1.000 g at 105 C
498	metformin Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
499	Methadone Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
500	Methenamine		Max 2% determined on 1.000 g at
501	Methionine		Max 0.5% determined on 1.000 g at 105 C
502	DL-Methionine		Max 0.5% determined on 1.000 g at 105 C
503	Methotrexate	Max 13% determined on 0.10 g	
504	Methoxamine hydrochloride		Max 0.5% determined on 1.000 g at 105 C

505	Methyl Nicotinate	Max 0.5% determined on 2 g	
506	Methyldopa	10-13% determined on 0.2 g	
507	Methyldopate hydrochloride		Max 0.5% determined on 1.000 g at 105 C
508	Methylergometrine Maleate		Max 2% determined on 1.000 g at 105 C
509	Methylphenidate Hydrochloride		Max 0.5% determined on 1.000 g at 60 C
510	methylphenobarbital		Max 0.5% determined on 1.000 g at 105 C
511	Methylprednisolone		Max 1% determined on 0.5 g at 105 C
512	Methylprednisolone		Max 0.5% determined on 1.000 g at 105 C
513	methylprednisolone hydrogen succinate		Max 1% determined on 1.000 g at 105 C
514	Methyltestosterone		Max 2% determined on 0.5 g at 105 C
515	Methylthioninium Chloride		8-22% determined on 1 g at 105 C
516	Methysergide maleate		Max 7% determined on 1.000 g at 120 C
517	Metipranolol	Max 0.5% determined in on 1 g	
518	Metixene Hydrochloride		4-6% determined on 0.5 g at 138-142 C
519	Metoclopramide		Max 1% determined on 1.000 g

			at 105 C
520	Metoclopramide Hydrochloride	4.5-5.5% determined on 0.5 g	
521	Metolazone		Max 1% determined on 1.000 g at 105 C
522	Metoprolol Succinate		Max 0.5% determined on 1.000 g at 105 C
523	Metoprolol Tartrate		Max 0.5% determined on 1.000 g
524	Metrifonate	Max 0.3% determined in on 3 g	
525	Metronidazole		Max 0.5% determined on 1.000 g at 105 C
526	Metronidazole Benzoate		Max 0.5% determined on 1.000 g at 80 C
527	Metyrapone		Max 0.5% determined on 1.000 g at 0.7 kPa
528	Mexenone		Max 0.5% determined on 1.000 g at 60 C
529	Mexiletine Hydrochloride	Max 0.5% determined in on 1 g	
530	Mianserin Hydrochloride		Max 0.5% determined on 1.000 g at 65 C
531	Miconazole		Max 0.5% determined on 1.000 g at 60 C
532	Miconazole Nitrate		Max 0.5% determined on 1.000 g at 105 C
533	Midazolam		Max 0.5% determined on 1.000 g

			at 105 C
534	Minocycline Hydrochloride Dihydrate	5-8% determined on 0.5 g	
535	Minoxidil		Max 0.5% determined on 1.000 g at 105 C
536	Mirtazapine	Max 3.5% determined in on 1 g	
537	Misoprostol	Max 1% determined on 1ml of a 10mg/ml solution	
538	Mitobronitol		Max 1% determined on 1.000 g at 105 C
539	Mitomycin	Max 2.5% determined in on 0.30 g	
540	Mitoxantrone Hydrochloride	Max 6% determined in on 0.30 g	
541	Modafinil		Max 0.5% determined on 1.000 g at 105 C
542	Molsidomine		Max 0.5% determined on 1.000 g at 105 C
543	Mometasone Furoate		Max 0.5% determined on 1.000 g at 105 C
544	Montelukast Sodium	Max 4% determined in on 0.30 g	
545	Morphine Hydrochloride	12.5-15.5% determined on 0.10 g	
546	Morphine Sulfate	10.4-13.4% determined on 0.10 g	

547	Moxifloxacin Hydrochloride	Max 4.5% determined in on 0.20 g	
548	Moxisylyte Hydrochloride		Max 0.5% determined on 1.000 g at 105 C
549	Moxonidine		Max 0.5% determined on 1.000 g at 105 C
550	Mupirocin	Max 1% determined on 0.5 g	
551	Mupirocin Calcium	3-4.5% determined on 0.5 g	
552	Mycophenolate Mofetil		Max 0.5% determined on 1.000 g at 60 C
553	Nabumetone	0.2% determined on 1 g	
554	Nadolol		Max 2% determined on 1.000 g at 60 C
555	Naftadrofuryl oxalate		Max 0.5% determined on 1.000 g at 105 C
556	Nalidixic acid		Max 0.5% determined on 1.000 g at 105 C
557	Naloxone hydrochloride	7.5-11% determined on .2 g	
558	Naltrexone hydrochloride	Max 10% determined on 0.2 g	
559	Nandrolone decanoate		Max 0.5% determined on 1.000 g at room temperature
560	Nandrolone phenylpropinoate		Max 0.5% determined on 1.000 g at 0.7 kPa
561	Naphazoline hydrochloride		Max 0.5% determined on 1.000 g at 105 C
562	Naphazoline nitrate		Max 0.5% determined on 1.000 g at 105 C

563	Naproxen		Max 0.5% determined on 1.000 g at 105 C
564	Nateglinide		Max 0.5% determined on 1.000 g at 105 C
565	neomycin sulfate		Max 8% determined on 1.000 g at 60 C
566	neostigmine bromide		Max 1% determined on 1.000 g at 105 C
567	neostigmine metilsulfate		Max 0.5% determined on 1.000 g at 105 C
568	netilmicin sulfate		Max 15% determined on 0.5 g at 110 C
569	anhydrous nevirapine		Max 0.5% determined on 1.000 g at 105 C
570	nicergoline	Max 0.5% determined on 1 g	
571	anhydrous niclosamide		Max 0.5% determined on 1.000 g at 105 C
572	niclosamide monohydrate		4.5-6% determined on 1 g at 105 C
573	nocorandil		Max 0.1% determined on 1.000 g at 105 C
574	nicotinamide		Max 0.5% determined on 1.000 g
575	nicotine	Max 0.5% determined on 1 g	
576	nicotine ditrartrate dihydrate	6.9-8% determined on 0.2 g	
577	nicotine resinate	Max 5% determined on 1 g	
578	nicotinic acid		Max 1% determined on 1.000 g

			at 105 C
579	nicotinyl alcohol tartrate		Max 1% determined on 1.000 g at 105 C
580	nifedipine		Max 0.5% determined on 1.000 g at 105 C
581	nifuroxazide		Max 0.5% determined on 1.000 g at 105 C
582	nikethamide	Max 0.3% determined on 2 g	
583	nilutamide	Max 0.5% determined on 0.5 g	
584	nimesulide		Max 0.5% determined on 1.000 g at 105 C
585	nimodipine		Max 0.5% determined on 1.000 g at 105 C
586	nitrazepam		Max 0.5% determined on 1.000 g at 105 C
587	nitrendipine		Max 0.5% determined on 1.000 g at 105 C
588	nitrofurantoin		Max 1% determined on 1.000 g at 105 C
589	nitrofurazone		Max 0.5% determined on 1.000 g at 105 C
590	nitrous oxide	Max 67 ppm determined on eletrolytic hygrometer	
591	nizatidine		Max 0.5% determined on 1.000 g at 105 C
592	nomegestrol acetate		Max 0.5% determined on 1.000 g

			at 105 C
593	nonoxinol 9	Max 0.5% determined on 2 g	
594	noradrenaline acid tartrate	4.5-5.8% determined on 0.5 g	
595	noradrenaline hydrochloride	Max 0.5% determined on 1 g	
596	norethisterone		Max 0.5% determined on 1.000 g at 105 C
597	norethisterone acetate		Max 0.5% determined on 1.000 g at 105 C
598	norfloxacin		Max 0.1% determined on 1.000 g at 105 C
599	norgestimate		Max 0.5% determined on 0.5 g at 105 C
600	norgestrel		Max 0.5% determined on 1.000 g at 105 C
601	nortriptyline hydrochloride		Max 0.5% determined on 1.000 g at 105 C
602	noscapine		Max 1% determined on 0.5 g at 105 C
603	noscapine hydrochloride		2.5-6.5% determined on 0.2 g at 105 C
604	nystatin		Max 5% determined on 1.000 g at 60 C
605	octyl gallate		Max 0.5% determined on 1.000 g at 70 C
606	ofloxacin		Max 0.2% determined on 1.000 g

			at 105 C
607	olanzapine	Max 1% determined on 0.25 g	
608	olmesartan medoxomil	Max 0.5% determined on 0.5 g	
609	olsalazine sodium		Max 2% determined on 1.000 g at 150 C
610	omeprazole		Max 0.2% determined on 1.000 g at 60 C
611	omeprazole magnesium	7-10% determined on 0.2 g	
612	omeprazole sodium	4.5-10% determined on0.3 g	
613	ondansetron hydrochloride dihydrate	9-10.5% determined on 0.2 g	
614	orciprenaline sulfate	Max 2% determined on 1 g	
615	orphenadrine citrate		Max 0.5% determined on 1.000 g at 105 C
616	orphenadrine hydrochloride		Max 0.5% determined on 1.000 g at 105 C
617	oseltamivir phosphate	Max 0.5% determined on 0.5 g	
618	oxacillin sodium monohydrate	3.5-5% determined on0.3 g	
619	oxazepam		Max 0.5% determined on 1.000 g at 105 C
620	oxeladin hydrogen citrate		Max 0.5% determined on 1.000 g at 60 C
621	oxatacaine		Max 0.5% determined on 1.000 g at 60 C

622	oxitropium bromide		Max 0.5% determined on 1.000 g at 105 C
623	oxolinic acid		Max 0.5% determined on 1.000 g at 105 C
624	oxprenolol hydrochloride		Max 0.5% determined on 1.000 g at 60 C
625	oxybuprocaine hydrochloride		Max 0.5% determined on 1.000 g at 105 C
626	oxybutytin hydrochloride		Max 3% determined on 1.000 g at 105 C
627	oxycodone hydrochloride	Max 7% determined on 0.25 g	
628	oxymetazoline hydrochloride		Max 1% determined on 1.000 g at 105 C
629	oxymetholone		Max 0.5% determined on 1.000 g at 105 C
630	oxytetracycline dihydrate	6-9% determined on 0.25 g	
631	oxytetracycline calcium	Max 15% determined on 0.25 g	
632	oxytetracycline hydrochloride	Max 2% determined on 0.5 g	
633	oxytoxin	Max 5% determined on 50 mg	
634	paclitaxel	Max 3% determined on 0.05 g	
635	pamidronate disodium pentahydrate	23-27% determined on 0.1 g	
636	pancuronium bromide	Max 8% determined on 0.3 g	

637	pantoprazole sodium sesquihydrate	5.9-6.9% determined on 0.150 g	
638	papaveretum		10-14% determined on 0.5 g at 130 C
639	papaverine hydrochloride		Max 0.5% determined on 1 g at 105 C
640	paracetamol		Max 0.5% determined on 1 g at 105 C
641	anhydrous paroxetine hydrochloride	Max 15% determined on 0.5 g	
642	paroxetine hydrochloride hemihydrate	2.2-2.7% determined on 0.3 g	
643	pefloxacin mesilate	7-8.5% determined on 50 mg	
644	penbutolol sulfate		Max 0.5% determined on 1 g at 105 C
645	penicillamine		Max 0.5% determined on 1 g at 60 C
646	pentagastrin		Max 0.5% determined on 1 g at 0.7 pKa
647	pentamidine isetionate		Max 4% determined on 1 g at 105 C
648	pentazocaine		Max 0.5% determined on 1 g at 60 C
649	pentazocaine hydrochloride		Max 0.5% determined on 1 g at 60 C
650	pentazocaine lactate		Max 0.5% determined on 1 g at 105 C

651	pentobarbital		Max 0.5% determined on 1 g at 105 C
652	pentobarbital sodium		Max 3% determined on 1 g at 105 C
653	pentoxifylline		Max 0.5% determined on 1 g at 60 C
654	pentoxyverine citrate		Max 0.5% determined on 1 g at 60 C
655	pergolide mesilate		Max 0.5% determined on 1 g at 105 C
656	perindopril erbumine	Max 1% determined on 0.5 g	
657	perphenazine		Max 0.5% determined on 1 g at 65 C
658	pethidine hydrochloride		Max 0.5% determined on 1 g at 105 C
659	phenazone		Max 1% determined on 1 g at 60 C
660	phenelzine sulfate		Max 1% determined on 1 g at 0.7 pKa
661	phenindamine tartrate		Max 1% determined on 1 g at 105 C
662	phenindione		Max 1% determined on 1 g at 105 C
663	pheniramine maleate		Max 0.5% determined on 1 g at 60 C
664	phenobarbital		Max 0.5% determined on 1 g at 105 C

665	phenobarbital sodium		Max 7% determined on 0.5 g at 150 C
666	phenoxybenzamine hydrochloride		Max 0.5% determined on 1 g at 0.7 pKa
667	phenoxymethylpenicillin	Max 0.5% determined on 1 g	
668	phenoxymethylpenicillin potassium	Max 1% determined on 1 g	
669	phentolamine mesilate		Max 0.5% determined on 1 g at 105 C
670	phenylbutazone		Max 0.2% determined on 1 g at 80 C
671	phenylephrine		Max 0.5% determined on 1 g at 105 C
672	phenylephrine hydrochloride		Max 1% determined on 1 g at 105 C
673	phenylpropanolamine hydrochloride		Max 0.5% determined on 1 g at 105 C
674	phenytoin		Max 0.5% determined on 1 g at 105 C
675	phenytoin sodium	Max 3% determined on 1 g	
676	anhydrous phloroglucinol		Max 1% determined on 1 g at 105 C
677	phloroglucinol dihydrate		20-23% determined on 1 g at 105 C
678	pholcodine		3.9-4.5% determined on 0.5 g at 105 C
679	phthalylsulfathiazole		Max 2% determined on 1 g at

			105 C
680	physostigmine salicylate		Max 1% determined on 1 g at 105 C
681	picotamide monohydrate	4.5-5% determined on 0.3 g	
682	pilocarpine hydrochloride		Max 0.5% determined on 1 g at 105 C
683	pilocarpine nirate		Max 0.5% determined on 1 g at 105 C
684	pimobndan	Max 1% determined on 0.5 g	
685	pimozide		Max 0.5% determined on 1 g at 105 C
686	pindolol		Max 0.5% determined on 1 g at 105 C
687	pipemidic acid trihydrite		14-16% determined on 1 g at 105 C
688	piperacillin	2-4% determined on 0.5 g	
689	piperacillin sodium	Max 2% determined on 0.5 g	
690	piperazine adipate	Max 0.5% determined on 1 g	
691	piperazine citrate	10-14% determined on 0.3 g	
692	piperazine phosphate	6-9% determined on 0.25 g	
693	piracetam		Max 1% determined on 1 g at 105 C
694	pirenzepine hydrochloride	6-9% determined on 0.25 g	
695	piretanide		Max 0.5% determined on 1 g at 105 C
696	piroxicam		Max 0.5% determined on 1 g at

			105 C
697	pivampicillin	Max 1% determined on 0.3 g	
698	pivmecillinam hydrochloride	Max 0.5% determined on 1 g	
699	pizotifen malate		Max 0.5% determined on 1 g at 100-105 C
700	poldine metilsulfate		Max 0.5% determined on 1 g at 80 C
701	polymixin b sulfate		Max 6% determined on 1 g at 60 C
702	polythiazide		Max 1% determined on 1 g at 105 C
703	potassium chloride		Max 1% determined on 1 g at 105 C
704	potassium citrate	4-7% determined on 0.25 g	
705	potassium clavulanate	Max 0.5% determined on 1 g	
706	diluted potassium clavulanate	Max 2.5% determined on 1 g	
707	potassium hydroxyquinoline sulfate	Max 5% determined on 0.5 g	
708	potassium iodate		Max 0.5% determined on 1 g at 130 C
709	pramipexole dihydrochloride monohydrate	5-7% determined on 0.5 g	
710	pravastatin sodium	Max 4% determined on 0.5 g	
711	prazepam		Max 0.5% determined on 1 g at

			105 C
712	praziquantel		Max 0.5% determined on 1 g at 50 C
713	prazosin hydrochloride	Max 0.5% determined on 1 g	
714	prednicarbate		Max 0.5% determined on 1 g at 105 C
715	prednisolone		Max 1% determined on 0.5 g at 105 C
716	prednisolonr acetate		Max 0.5% determined on 1 g at 105 C
717	prednisolone pivalate		Max 0.5% determined on 1 g at 105 C
718	prednisolone sodium phosphate	Max 8% determined on 0.2 g	
719	prednisone		Max 1% determined on 0.5 g at 105 C
720	prilocaine	Max 0.5% determined on 1 g	
721	prilocaine hydrochloride		Max 0.5% determined on 1 g at 105 C
722	primaquine phosphate		Max 0.5% determined on 1 g at 105 C
723	primidone		Max 0.5% determined on 1 g at 105 C
724	probenecid		Max 0.5% determined on 1 g at 105 C
725	procainamide hydrochloride		Max 0.5% determined on 1 g at 105 C

726	procaine benzylpenicillin	2.8-4.2% determined on 0.5 g	
727	procaine hydrochloride		Max 0.5% determined on 1 g at 105 C
728	proclorperazine maleate		Max 1% determined on 1 g at 105 C
729	prochlorperazine mesilate		Max 1% determined on 1 g at 100 C
730	procyclidine hydrochloride		Max 0.5% determined on 1 g at 105 C
731	progesterone		Max 0.5% determined on 0.5 g at 105 C
732	proguanil hydrochloride		Max 0.5% determined on 1 g at 105 C
733	promazine hydrocchloride		Max 0.5% determined on 1 g at 105 C
734	promethazine hydrochloride		Max 0.5% determined on 1 g at 105 C
735	promethazine teoclate		Max 0.5% determined on 1 g at 105 C
736	propacetamol hydrochloride		Max 0.5% determined on 1 g at 105 C
737	propafenone hydrochloride		Max 0.5% determined on 1 g at 105 C
738	propantheline bromide		Max 1% determined on 1 g at 105 C
739	propranolol hydrochloride		Max 0.5% determined on 1 g at 105 C

740	propylthiouracil		Max 0.5% determined on 1 g at 105 C
741	propyphenazone		Max 0.5% determined on 1 g at 60 C
742	protamine hydrochloride		Max 5% determined on 1 g at 105 C
743	protamine sulfate		Max 5% determined on 1 g at 105 C
744	protirelin	Max 7% determined on 0.2 g	
745	protriptyline hydrochloride		Max 0.5% determined on 1 g at 60 C
746	proxymetacaine hydrochloride		Max 0.5% determined on 1 g at 105 C
747	proxyphylline		Max 0.5% determined on 1 g at 105 C
748	pseudoephedrine hydrochloride		Max 0.5% determined on 1 g at 105 C
749	pyrantel embonate		Max 1% determined on 1 g at 60 C
750	pyrazinamide	Max 0.5% determined on 2 g	
751	pyridostigmine bromide		Max 0.5% determined on 1 g at 105 C
752	pyridoxine hydrochloride		Max 0.5% determined on 1 g at 105 C
753	pyrimethamine		Max 0.5% determined on 1 g at 105 C
754	quinidine bisulphate	Max 0.5% determined on 1 g	

755	quinidine sulfate		3-5% determined on 1 g at 130 C
756	quinine bisulfate	19-25% determined on .2 g	
757	quinine dihydrochloride		Max 3% determined on 1 g at 105 C
758	quinine hydrochloride		6-10% determined on 1 g at 105 C
759	quinine sulfate		3-5% determined on 1 g at 105 C
760	racephedrine hydrochloride		Max 0.5% determined on 1 g at 105 C
761	raloxifene hydrochloride		Max 0.5% determined on 1 g at 105 C
762	ramipril		Max 0.2% determined on 1 g at 60 C
763	ranitidine hydrochloride		Max 0.75% determined on 1 g at 60 C
764	repaglinide		Max 0.5% determined on 1 g at 105 C
765	reserpine		Max 0.5% determined on 0.5 g at 60 C
766	resorcinol		Max 1% determined on 1 g
767	ribavirin		Max 0.5% determined on 1 g at 105 C
768	riboflavin		Max 1.5% determined on 1 g at 105 C
769	riboflavin sodium phosphate		Max 8% determined on 1 g at 105 C
770	rifabutin	Max 2.5% determined on .2 g	

771	rifampicin		Max 1% determined on 1 g at 80 C
772	rifamycin sodium	12-17% determined on .2 g	
773	rilmenidine		Max 0.5% determined on 1 g at 50 C
774	risperidone		Max 0.5% determined on 1 g at 105 C
775	ritodrine hydrochloride		Max 1% determined on 1 g at 105 C
776	ritonavir	Max 0.5% determined on .5 g	
777	rizatriptan benzoate	Max 0.5% determined on .5 g	
778	rocuronium bromide	Max 4% determined on .4 g	
779	ropivacaine hydrochloride monohydrate	5-6% determined on .1 g	
780	roxithromycin	Max 3% determined on .2 g	
781	rutoside trihydrate	7.5-9.5% determined on .1 g	
782	salbutamol		Max 0.5% determined on 1 g at 105 C
783	salbutamol sulfate		Max 0.5% determined on 1 g at 105 C
784	salicylic acid		Max 0.5% determined on 1 g
785	salmeterol xinafoate	Max 0.5% determined on 1 g	
786	saquinavir mesilate	Max 1% determined on 0.250 g	
787	selegiline hydrochloride		Max 0.5% determined on 1 g at 60 C

788	sertaconazole nitrate	Max 1% determined on 0.50 g	
789	sertraline hydrochloride	Max 0.5% determined on 2 g	
790	simvastatin		Max 0.5% determined on 1 g at 60 C
791	sodium chloride		Max 0.5% determined on 1 g at 105 C
792	sodium fusidate	Max 2% determined on 0.50 g	
793	sodium pheylbutyrate	Max 0.5% determined on 2 g	
794	sodium propinoate		Max 0.5% determined on 1 g at 105 C
795	sodium salicylate		Max 0.5% determined on 1 g at 105 C
796	sotalol hydrochloride		Max 0.5% determined on 1 g at 105 C
797	spironolactone		Max 0.5% determined on 1 g at 105 C
798	sulindac		Max 0.5% determined on 1 g at 105 C
799	sulpiride		Max 0.5% determined on 1 g at 105 C
800	sultamicillin	Max 1% determined on 0.50 g	
801	sultamicillin tosilate dihydrate	Max 3% determined on .2 g	
802	sumatriptan	Max 1% determined on 1 g	
803	suxibuzone		Max 0.5% determined on 1 g at 60 C
804	tadalafil		Max 0.5% determined on 1 g at

			105 C
805	tamsulosin hydrochloride		Max 0.5% determined on 1 g at 105 C
806	telmisartan		Max 0.5% determined on 1 g at 105 C
807	temazepam		Max 0.5% determined on 1 g at 105 C
808	tenoxicam	Max 0.5% determined on 1 g	
809	terazosin hydrochloride dihydrate	7-8.6% determined on 0.2 g	
810	terbinafine hydrochloride		Max 0.5% determined on 1 g at 105 C
811	terbutaline sulfate		Max 0.5% determined on 1 g at 105 C
812	terconazole		Max 0.5% determined on 1 g at 105 C
813	testosterone		Max 1% determined on 0.5 g at 60 C
814	tetrazepam		Max 0.5% determined on 1 g at 105 C
815	thiamazole		Max 0.5% determined on 1 g at 105 C
816	thioridazine		Max 0.5% determined on 1 g at 50 C
817	thioridazine hydrochloride		Max 0.5% determined on 1 g at 105 C
818	tiabendazole	Max 0.5% determined on 1 g	

819	tianeptine sodium	Max 5% determined on 0.1 g	
820	tramadol hydrochloride	Max 0.5% determined on 1 g	
821	triamcinolone	Max 1% determined on 0.5 g	
822	triflusal		Max 0.5% determined on 1 g
823	trimetazidie hydrochloride		Max 2.5% determined on 1 g at 105 C
824	tropisetron hydrochloride		Max 0.3% determined on 1 g at 105 C
825	valsartan	Max 2% determined on 0.5 g	
826	xylometazoline hydrochloride		Max 0.5% determined on 1 g at 105 C
827	yohimbine hydrochloride		Max 0.5% determined on 1 g at 105 C
828	zuclopenthixol decanoate		Max 0.5% determined on 1 g at 60 C