

# A Cry for Genuine Homoeopathic Medicines In Our Standard Practice Throughout the World

Dr Pran Gobinda Chowdhury 61 N P Road (Bus Terminal) Nabadwip Dham  
Nadia West Bengal - 741 302

Dr. Hahnemann advises us, "....that he (physician) should himself select his remedies, prepare them himself and administer them to the patient with his own hand<sup>3</sup>, ....". In the era of Busy and Fast situation of our Professional life, 'DISPENSING' may be possible but 'PREPARATION' ? Certainly not ! Because 2000 or more drugs

included in the history of Homoeopathy, were proved fully or partially and clinically. One physician can consume a lot of time on it ? Naturally, we are depending and/or selecting on our individual fascinated APOTHECARIES i.e. Homoeopathic Pharmaceutical Companies (in short H.P.C) in India and abroad for

genuine Homoeopathic medicines in our standard practice.

Yet I think our global community Homoeopathic Physicians should have full right to verify each Mother Tinctures (Q) prepared under NEW<sup>4</sup> and/or OLD<sup>5</sup> methods and different degrees of potentized medicines of Centesi-

1. This 'Research article' is dedicated to our great master Dr. Chr.Fr. Sam. Hahnemann and his true followers.
2. I am inviting you all to kindly think keenly and send your comments on it for the sake of Homoeopathy.
3. HAHNEMANN, Dr. S : The Lesser writings, PP 696 - 712 ; Collected & Translated by Dr. R.E. Dudgeon.
4. The methods of 'Maceration' & 'Parcolation' are called "NEW METHOD"<sup>6</sup>.
5. Hahnemann's classification of Nine methods of Preparation of Homoeopathic drugs/medicines are called "OLD METHOD"<sup>6</sup>.
6. More details see my charts (Table Nos. 1, 2 & 3).

**TABLE - 1**

In different CLASSES prepares the following Medicines	Methods of Mother Tincture or 1st trituration with their Drug Power	No of succussions in Centesimal(c) scale of Potencies								
		1c	2c	3c	4c	5c	12c	18c	24c	30c
CLASS - I Bell, Bry & c	Old method (1/2)	10	20	30	40	50	120	180	240	300
	New method (1/10)	10	20	30	40	50	120	180	240	300
CLASS - II Euphr, Thuj & c.	Old method (1/2)	10	20	30	40	50	120	180	240	300
	New method (1/10)	10	20	30	40	50	120	180	240	300
CLASS - III Abort, Cina & c.	Old method (1/6)	10	20	30	40	50	120	180	240	300
	New method (1/10)	10	20	30	40	50	120	180	240	300
CLASS - IV Spong, Staph & c.	Old/New method (1/10)	10	20	30	40	50	120	180	240	300
CLASS - V a Nit-ac, Sulph-ac & c.	Old method (1/10)	10	20	30	40	50	120	180	240	300
CLASS - V b Brom, Phos-ac & c	Old method (1/100)	Q	10	20	30	50	110	170	230	290
CLASS - VI a Aml-n, carb-ac & c	Old method (1/10)	10	20	30	40	50	120	180	240	300
CLASS VI b Carb-s, Cop & c.	Old method (1/100)	Q	10	20	30	50	110	170	230	290
CLASS - VII Alum, Ars & c.	Old method (1/100)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	30	90	150	210	270
CLASS - VIII Lach, Petr & c.	Old method (1/100)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	30	90	150	210	270
CLASS - IX Agar, Sol-a & c.	Old method (1/100)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	30	90	150	210	270

NOTE : 'Q' mentioned, where the Drug Power of Mother Tinctures 1/100, and gives no succussions.  
 'T' mentioned, where drugs attenuated in powder then potentize t by trituration and the number/s with 'T' indicating time i.e hour/s.

**TABLE - 2**

In different CLASSES prepares the following Medicines	Methods of Mother Tincture or 1st Trituration with their Drug Power	No. of succussions in Desimal (X) scale of Potencies									
		1X	2X	3X	4X	5X	6X	7X	8X	12X	
CLASS - I Bell, Bry & c.	Old method (1/2)	10	20	30	40	50	60	70	80	120	
	New method (1/10)	Q	10	20	30	40	50	60	70	110	
CLASS - II Euphr, Thuj & c.	Old method (1/2)	10	20	30	40	50	60	70	80	120	
	New method-(1/10)	Q	10	20	30	40	50	60	70	110	
CLASS - III Abort, Cina & c.	Old method (1/6)	10	20	30	40	50	60	70	80	120	
	New method (1/10)	Q	10	20	30	40	50	60	70	110	
CLASS - IV Spong, Staph & c.	Old/New method (1/10)	Q	10	20	30	40	50	60	70	110	
CLASS - V a Nit-ac, Sulph-ac & c.	Old method (1/10)	Q	10	20	30	40	50	60	70	110	
CLASS - V b Brom, Phos-ac & c	Old method (1/100)	?	Q	10	20	30	40	50	60	100	
CLASS - VI a Aml-n, carb-ac & c	Old method (1/10)	Q	10	20	30	40	50	60	70	110	
CLASS VI b Carb-s, Cop & c.	Old method (1/100)	?	Q	10	20	30	40	50	60	100	
CLASS - VII Alum, Ars & c.	Old method (1/10)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>4</sub>	T <sub>5</sub>	T <sub>6</sub>	?	10	50	
CLASS - VIII Lach, Petr & c.	Old method (1/100)	?	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>4</sub>	T <sub>5</sub>	?	10	50	
CLASS - IX Agar, Sol-a & c.	Old method (1/10)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>4</sub>	T <sub>5</sub>	T <sub>6</sub>	?	10	50	

NOTE : 'Q' mentioned, where the Drug Power of Mother Tinctures 1/10 or 1/100 and gives no succussions. 'T' mentioned, where drugs attenuated in powder then potentized by trituration and the number/s with 'T' indicating time i.e hour/s.

**TABLE - 3**

Name of the Drug Substance	Methods of Mother Tincture or 1st Trituration with their Drug Power	No. of succussions in Centesimal (c) & Desimal (X) scale potencies										
		1c	2c	3c	4c	30c	1X	2X	3X	6X	8X	12X
Acon. & c.	Class-I (1/2)	10	20	30	40	300	10	20	30	60	80	120
	Class-II (1/2)	10	20	30	40	300	10	20	30	60	80	120
	Class-III (1/6)	10	20	30	40	300	10	20	30	60	80	120
	New Method (1/10)	10	20	30	40	300	Q	10	20	50	70	110
Acse-G & c.	Class-III (1/6)	10	20	30	40	300	10	20	30	60	80	120
	New method (1/10)	10	20	30	40	300	Q	10	20	50	70	110
	Class-VII (1/100 or 1/10)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	270	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>6</sub>	10	50
Aloc. & c.	Class-IV (1/10)	10	20	30	40	300	Q	10	20	50	70	110
	Class-VII (1/100 or 1/10)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	270	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>6</sub>	10	50
Am-c. & c.	Class-Va (1/10)	10	20	30	40	300	Q	10	20	50	70	110
	Class-VII (1/100 or 1/10)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	270	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>6</sub>	10	50
Ant-t & c.	Class-Vb (1/100)	Q	10	20	30	290	?	Q	10	40	60	100
	Class-VII (1/100 or 1/10)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	270	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>6</sub>	10	50
Chin. & c.	Class-VIa (1/10)	10	20	30	40	300	Q	10	20	50	70	110
	Class-VII (1/100 or 1/10)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	270	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>6</sub>	10	50
Crot-t. & c.	Class-VIb (1/100)	Q	10	20	30	290	?	Q	10	40	60	100
	Class-VIII (1/100)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	270	?	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	50
Cyp. & c.	Class-IV (1/10)	10	20	30	40	300	Q	10	20	50	70	110
	Class-IX (1/100 or 1/10)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	270	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>6</sub>	10	50
Iod. & c.	Class-VIb (1/100)	Q	10	20	30	290	?	Q	10	40	60	100
	Class-VII (1/100 or 1/10)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	270	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>6</sub>	10	50
Kali-c & c	Class-VII (1/100 or 1/10)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	270	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>6</sub>	10	50
	Class-VIII (1/100)	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	270	?	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	10	50

NOTE : 'Q' mentioned, where the Drug Power of Mother Tinctures 1/10 or 1/100 and gives no succussions. 'T' mentioned, where Drugs attenuated in powder then potentized by trituration and the number/s with 'T' indicating time i.e hour/s.

mal 1/100 (C/CH) scale, or Decimal 1/10 (D/X) scale<sup>7</sup>, or 50 Millesimal 1/50000 (LM/m/o) scale before collection from them (H.P.C.).

Now-a-days the Consumer Protection Act (C.P.A.) is fully authorised by the Supreme Court verdict<sup>8</sup> to act on complaints by patients against their doctors. Under C.P.A. Medical Practice is termed as any other professional service and a patient is a consumer of this service. Simultaneously, we are also consumers as Homoeopathic medicine purchaser, then why should we not claim for the same service?

Many of our pioneer Homoeopathic physicians highlighted their views in the periodi-

cals<sup>9,12</sup> regarding the preparation of Homoeopathic medicines excluding Pharmacopoeias and its problem but no one came forward to protest against the Directors of H.P.C for the cause of standard methods of potentized Homeopathic medicines as per Hahnemann.

I am only a physician, who first provoke directly to our Homoeopathic profession and am trying to unravel of such deep-rooted problems through an article<sup>14</sup>, vocally<sup>15</sup> and I also appeal to you all for necessary action from different platforms. Some foreign and Indian Homoeopathic Physician support and honour my thought but no Directors of H.P.C. have come forward to answer it properly till now.

So is it proved that they (H.P.C.) were and are not potentizing the Homoeopathic medicines as per American<sup>16</sup>, Indian<sup>17</sup>, or other Pharmacopoeias specially for the preparation of high and highest potencies? Are our dignitary officials of Pharmacopoeia Committee, Central Council of Homoeopathy (C.C.H), Central Council of Research Homoeopathy (C.C.R.H.), Drug Control (Central/State) Committee and others supporting and allowing them of such mysterious process which spreads out rather trespasses throughout the global Homoeopathy?

Since 1790, Dr. Hahnemann experimented by administering crude drugs, then

7. Desimal scale introduced by Dr. C. Hering but as per Dr. S.F. Elahee<sup>12</sup> it should be Dr. Samuel Dubes.
8. In 1986 the Consumer Protection Act became a law.
9. Dr. AEGIDI : High Potencies, Am. Hom. Rev. 1863 - 512, Reprint - the Homoeopathic Heritage, July 1992.
10. SKINNER Dr. THOMAS: Dr. Skinner's Centesimal Fluxion Potentizer ; The Organon Vol. I - 1878, Reprint - The Homoeopathic Heritage, September 1992.
11. SKINNER Dr. THOMAS : Other Fluxion Potentizers, the Organon Vol. II - 1878, Reprint - The Homoeopathic Heritage, October 1992.
12. Elahee, Dr. S.F : Shaktikaran Jantra O Uchha Shaktir Ousad Prastut Pranali<sup>13</sup>; HAHNEMANN (Bengali monthly Journal); 76 year, No. 5 & 6, Aswin - Kartick, 1401.
13. More details see my charts (Table Nos. 4 & 5).
14. CHOWDHURY, Dr. P.G. : Are we using the medicines potentized according to Hahnemannian ways? : National Journal of Homoeopathy, Bombay, in the Research section of Vol. III No. 2, March-April 1994, & reprint by Homoeopathic Medical Panorama, Thiruvananthapuram Vol. 2 No. 1 Jan.-March 1995.
15. Paper read at a 'Scientific Seminar' Org. by HOMOEIO SAMIKSHA, on 26 th March '95 at Mahajati Sadan, Calcutta, & the same Paper pub. by HOMOEIO SAMIKSHA, Vol. 16 No. 2 July 10, 1995.
16. The American Homoeopathic Pharmacopoeia, 9th ed. 1911, Pub. by - Boericke & Tafel, U.S.A.
17. Homoeopathic Pharmacopoeia of India, Vol. 1-5, Pub. by Govt. of India, Ministry of Health & Family Welfare.

**TABLE - 4**

Drs. Fincke &amp; Fluxion Centesimal (F.C) scale

In different CLASSES prepares the following medicines	Methods of Mother Tincture with their Drug Power	No. of succussions in 30th of Centesimal scale	No. of succussions after continuous fluxion of the following degrees 200 (F.C); 1M (F.C); 1OM (F.C); 50 M (F.C) CM (F.C); DM (F.C); MM (F.C)
CLASS - I & II Bell, Bry, Euphr, Thuj & c.	Old Method (1/2)	60 or 300	60 + 2 or 300 + 2
	New Method (1/10)	60 or 300	60 + 2 or 300 + 2
CLASS - III Abort, Cina & c.	Old Method (1/6)	60 or 300	60 + 2 or 300 + 2
	New Method (1/10)	60 or 300	60 + 2 or 300 + 2
CLASS - IV Spong, Staph & c.	Old/New Method (1/10)	60 or 300	60 + 2 or 300 + 2
CLASS - Va & Via Aml-n, Cob-a, Nit-ac, Sulph - ac, & c.	Old Method (1/10)	60 or 300	60 + 2 or 300 + 2
CLASS - Vb & Vlb Bron, Carb-s, Cop phos-a c&c	Old Method (1/100)	58 or 290	58 + 2 or 290 + 2
CLASS-VII, VIII & IX Agar, Alum, Ars, Lach, Petr, Sol-a & c.	Old Method (1/100)	54 or 270	54 + 2 or 270 + 2

**Table - 5**

Dr. Skinner's Fluxion Centesimal (F.C.) scale.

SKINNER'S DILUTION	No. of succussions after discontinuous fluxion of the following degrees: 200 (F.C) IM(F.C); 1OM(F.C) 50 M (F.C); CM (F.C); DM (F.C) MM (F.C)
All medicines (Abies-c to Ziz)	1 minute + Sometime + 25

Note:- It makes 50 centesimal potencies per minute, 3,000 per hours, 72,000 per day, 1,00,000 in about thirty three hours, and the MM (or millionth), in three hundred and thirty hours or about thirteen day and a half, running night and day - Dr. Skinner<sup>10</sup>.

diluted, then added friction with it and found that curative property of medicines is infinitesimal and enhanced its action.

Dr. Hahnemann tried many ways of attenuations for *smallest possible dose* and rubbed or shook for the development of *Pharmaco-dynamic property* in it. He advocated<sup>18</sup> only two succussions for the preparation of each degree of potentized Homoeopathic medicines under Centesimal scale. But we find that he had modified it and also directed<sup>19</sup> us to give ten succussions instead of two succussions.

So, the question which arises is - Are our H.P.C. potentizing the medicines upto MMth of Centesimal (MM<sub>c</sub>) by giving 2 or 10 succussions and

following 5th ed of Organon of Medicine or 2nd ed of The Chronic Diseases.... respectively ?

Dr. Hahnemann also used potencies higher (?) than the Centesimal scale of medicines but never recommended above 30th of Centesimal (30c). On the basis of justification Dr. Hahnemann says, "There must be some limit to the thing, it cannot go on to infinity. By laying it down as a rule that all Homoeopathic medicines be diluted and potentized upto thirty, we have a uniform mode of procedure in the treatment of all Homoeopaths, and when they describe a cure we can repeat it as they do, and we operate with the same tools<sup>20</sup>".

During and after Hahnemann's time many followers

like Fincke, Gross, Jahr, Korsakoff, Muller, Skinner, and others were not satisfied upto 30c and invented<sup>21</sup> Fluxion Centesimal i.e. F.C. (continuous and discontinuous fluxion) for high and highest Potency (basically diluted only<sup>22</sup>) upto MM (F.C.). We are prescribing our well selected remedy above 30c except a few for curing the Patient's symptoms. So, are our prescriptions as per Hahnemann methods ?

I think, obviously not. No doubt we are Kentian and we follow Dr. Kent's "Octave method<sup>24</sup>". It is true that Dr. Kent could not see in his life time (he died on 6th June 1916) the latest<sup>25</sup> instruction of Dr. Hahnemann's 50,000 scale (Fifty Millesimal - named by Dr. P. Schmidt) of Potency where he advocated 100

18. HAHNEMANN, Dr. S. : Organon of Medicine, 5th ed, Sec-270, 1833 Translated by - Dr. R.E. Dudgeon.
19. HAHNEMANN, Dr. S. : The Chronic Diseases, their peculiar nature and their Homoeopathic cure, 2nd ed, 1837.
20. A letter of Dr. Hahnemann to Dr. Schreeter, dated September 13, 1829 (BRADFORD DR. T.L. : The Life & Letters of Dr. S. Hahnemann, 1st Ind. 1970).
21. Dr. Dudgeon says<sup>22</sup> : "Korasakoff was the real original inventor of high Potencies".
22. DUDGEON, Dr. R.E. : Lecture on Homoeopathy.
23. HAHNEMANN, Dr. S. : Organon of Medicine, 6th ed. Sec. 270, Foot Note 149 says : "We hear daily how Homoeopathic medicines Potencies are called MERE DILUTIONS, when they are the very opposite, i.e. a true opinion of the natural substances bringing to light and revealing the hidden specific medicinal powers contained within and brought forth by rubbing and shaking. The aid of a chosen, unmedicinal medium of attenuation is but a secondary condition.

Simple dilution, for instance, the solution of a grain of salt which becomes water, the grain of salt will disappear in the dilution with much water and will never develop into medicinal salt which by means of our well prepared dynamization, is raised to most marvellous Power".

24. GYPSER, Dr. K.H. : Dr. Kent's Minor Writings on Homoeopathy ; PP 674-677, Ind. Reprint, 1988 B. Jain Publishers.
25. Dr. Hahnemann completed 6th ed. Organon of Medicine in the year 1842 but it was published Posthumously in December 1921 due to unavoidable circumstances.

successions in preparing each degree of Potentized Homoeopathic medicines upto 30th of LM(d/30).

### REGARDING CENTESIMAL POTENCY :

- \* Are we using the series of high and highest potencies like 200c, 1Mc, 10Mc, 50Mc, CMc, DMc, MMc, or 200 (F.C.), 1M(F.C.), 10M (F.C.), 50 M (F.C.), CM (F.C.), DM (F.C.), MM(F.C.) respectively ?
- \* Are our H.P.C. potentizing or diluting Homoeopathic medicines by "many glasses method" or "single glass method" respectively ?
- \* Are our H.P.C. collecting the above series of back potencies or direct potencies from "Boericke & Tafel", U.S.A., or "Nelson & Co.", U.K., or "Willmar Schwabe", Germany, or other Co's. respectively ?
- \* And fully depending on them ?
- \* Is it a fact that these foreign Co's. are keeping the potentizing machine a secret ?
- \* Do our Indian Co's. know the same ?
- \* If they know the above, then why should you not divulge of such mysterious process ?
- \* What does our Pharmacopoeia Committee say ?
- \* What do our C.C.H and C.C.R.H. say ?
- \* What do Central and State drug

controller say ?

- \* Are you not getting ever chance to them for hoodwinking with Homoeopathic science ?
- \* Are not any method of Pharmacopraxy excluding Pharmacopoeias widow's weeds ?

Now-a-days many recognised H.P.C are using different types of dynamisers for the preparation of Korsakovian dilutions. Let us see, what are the relations<sup>26</sup> between the Hahnemannian (CH) Potency and the Korsakovian (K) dilutions ?

- 4 CH is equal to 6 K
- 5 CH is equal to 30 K
- 7 CH is equal to 200 K
- 9 CH is equal to 1M K
- 10 CH is equal to 10M K
- 18 CH is equal to CM K

So, in 30 CH What will be Korsakovian ?

So, may we safely say that Dr. Hahnemann advises us more higher potentized dilution in comparison with Korsakovian dilution ?

- \* If it is so, then how homeopathic doctrine of dynamization accepts of such mysterious process ?
- \* Do we highlight it for consideration of modern investigation either Clinical or Laboratory development vis-a-vis Homoeopathic Practice ?

### REGARDING 50 MILLESIMAL

### SCALE :

Various Homoeopathic medicines available in the market which prepare either Centesimal scale, or Desimal scale, or Fluxion Centesimal scale, or any but no method can maintain their standard value in different potencies. Dr. Hahnemann realised the same and had given us fully new and perfect method i.e. 50 Millesimal scale. This is the only method where we can maintain the standard value in each potency even in Mother of 50 Millesimal<sup>27</sup>. There will be no dispute if our hon'ble H.P.C. prepares the same as per directions.

We have fixed Principles for our guides and the vast infinity is before us, around us, and beyond us excluding the potency which is till missing link between Homoeopathy and modern science. Don't worry ! Whatever it may be, the Scientists<sup>28</sup> are trying to analyze such theory. Our first and foremost need is to serve Homoeopathy with genuine Homoeopathic medicines, otherwise no efforts can solve the problem.

I am inviting you all once again please come forward and try to rectify jointly in this discriminative system of Homoeopathic Pharmacopraxy.

26. MUKHERJEE, Dr. R.K. : Homoeopathic Dose and Dilution. Pub by - B Jain Publishers, New Delhi.

27. More details see my chart (Table No.6)

28. Benveniste's group ; Dutta, Dr. A.C ; Khuda Bukhsh, Dr. A.R ; Sharma Dr. R.R ; Sukul Dr. N.C & others.

**Table - 6**  
The 50 Millesimal (LM) Scale

Degree of each drug substances	Attenuated Part of each medicines	Total dynamization (rubbs & shakes)
3c (trit.)	$1/1000000 = 1/10^6$	3 hrs. of trit (T <sub>3</sub> )
Mother of LM	$1/10^6 \times 1/(400+100) = 1/5 \times 10^8$	T <sub>3</sub> + only mixing
0/1	$1/5 \times 10^8 \times 1/50000 = 1/5^2 \times 10^{12}$	T <sub>3</sub> + 100
0/2	$1/5^2 \times 10^{12} \times 1/50,000 = 1/5^3 \times 10^{16}$	T <sub>3</sub> + 200
0/3	$1/5^3 \times 10^{16} \times 1/50,000 = 1/5^4 \times 10^{20}$	T <sub>3</sub> + 300
0/4	$1/5^4 \times 10^{20} \times 1/50,000 = 1/5^5 \times 10^{24}$	T <sub>3</sub> + 400
0/5	$1/5^5 \times 10^{24} \times 1/50,000 = 1/5^6 \times 10^{28}$	T <sub>3</sub> + 500
0/6	$1/5^6 \times 10^{28} \times 1/50,000 = 1/5^7 \times 10^{32}$	T <sub>3</sub> + 600
0/7	$1/5^7 \times 10^{32} \times 1/50,000 = 1/5^8 \times 10^{36}$	T <sub>3</sub> + 700
0/8	$1/5^8 \times 10^{36} \times 1/50,000 = 1/5^9 \times 10^{40}$	T <sub>3</sub> + 800
0/9	$1/5^9 \times 10^{40} \times 1/50,000 = 1/5^{10} \times 10^{44}$	T <sub>3</sub> + 900
0/10	$1/5^{10} \times 10^{44} \times 1/50,000 = 1/5^{11} \times 10^{48}$	T <sub>3</sub> + 1000
0/11	$1/5^{11} \times 10^{48} \times 1/50,000 = 1/5^{12} \times 10^{52}$	T <sub>3</sub> + 1100
0/12	$1/5^{12} \times 10^{52} \times 1/50,000 = 1/5^{13} \times 10^{56}$	T <sub>3</sub> + 1200
0/13	$1/5^{13} \times 10^{56} \times 1/50,000 = 1/5^{14} \times 10^{60}$	T <sub>3</sub> + 1300
0/14	$1/5^{14} \times 10^{60} \times 1/50,000 = 1/5^{15} \times 10^{64}$	T <sub>3</sub> + 1400
0/15	$1/5^{15} \times 10^{64} \times 1/50,000 = 1/5^{16} \times 10^{68}$	T <sub>3</sub> + 1500
0/16	$1/5^{16} \times 10^{68} \times 1/50,000 = 1/5^{17} \times 10^{72}$	T <sub>3</sub> + 1600
0/17	$1/5^{17} \times 10^{72} \times 1/50,000 = 1/5^{18} \times 10^{76}$	T <sub>3</sub> + 1700
0/18	$1/5^{18} \times 10^{76} \times 1/50,000 = 1/5^{19} \times 10^{80}$	T <sub>3</sub> + 1800
0/19	$1/5^{19} \times 10^{80} \times 1/50,000 = 1/5^{20} \times 10^{84}$	T <sub>3</sub> + 1900
0/20	$1/5^{20} \times 10^{84} \times 1/50,000 = 1/5^{21} \times 10^{88}$	T <sub>3</sub> + 2000
0/21	$1/5^{21} \times 10^{88} \times 1/50,000 = 1/5^{22} \times 10^{92}$	T <sub>3</sub> + 2100
0/22	$1/5^{22} \times 10^{92} \times 1/50,000 = 1/5^{23} \times 10^{96}$	T <sub>3</sub> + 2200
0/23	$1/5^{23} \times 10^{96} \times 1/50,000 = 1/5^{24} \times 10^{100}$	T <sub>3</sub> + 2300
0/24	$1/5^{24} \times 10^{100} \times 1/50,000 = 1/5^{25} \times 10^{104}$	T <sub>3</sub> + 2400
0/25	$1/5^{25} \times 10^{104} \times 1/50,000 = 1/5^{26} \times 10^{108}$	T <sub>3</sub> + 2500
0/26	$1/5^{26} \times 10^{108} \times 1/50,000 = 1/5^{27} \times 10^{112}$	T <sub>3</sub> + 2600
0/27	$1/5^{27} \times 10^{112} \times 1/50,000 = 1/5^{28} \times 10^{116}$	T <sub>3</sub> + 2700
0/28	$1/5^{28} \times 10^{116} \times 1/50,000 = 1/5^{29} \times 10^{120}$	T <sub>3</sub> + 2800
0/29	$1/5^{29} \times 10^{120} \times 1/50,000 = 1/5^{30} \times 10^{124}$	T <sub>3</sub> + 2900
0/30	$1/5^{30} \times 10^{124} \times 1/50,000 = 1/5^{31} \times 10^{128}$	T <sub>3</sub> + 3000