Effect of Consciousness Energy Healing Treatment on the Metal Profile and Properties of Tellurium

Mahendra Kumar Trivedi¹, Alice Branton¹, Dahryn Trivedi¹ and Snehasis Jana²*

¹Trivedi Global, Inc., USA
²Trivedi Science Research Laboratory Pvt Ltd., India

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*Corresponding author: Snehasis Jana, Trivedi Science Research Laboratory Pvt Ltd., Thane (W), Maharashtra, India

Abstract
Tellurium metal which known to have many applications in metals, semiconductors, telecommunication industries. In this study, the impact of the impact of the Trivedi Effect®-Consciousness Energy Healing Treatment on the physicochemical properties of tellurium powder was evaluated using modern analytical techniques. The tellurium metal powder was divided into two parts defined as the control and Biofield Energy Treated sample. The control sample did not receive the Biofield Energy Treatment; however, the Biofield Treated sample received the Biofield Treatment (the Trivedi Effect®) by a well-known Biofield Energy Healer, Mr. Mahendra Kumar Trivedi remotely. The powder XRD peak intensities and the crystallite sizes of tellurium powder sample were significantly altered ranging from -52.53% to -29.03% and -5.32% to 56.51%, respectively than control tellurium. While the average crystallite size of Biofield Treated tellurium was significantly increased by 21.37% compared with the control sample. The particle size values in the treated tellurium were significantly increased at d₁₀, d₅₀, d₉₀, and D(4,3) by 22.24%, 26.00%, 12.92%, and 17.78%, respectively than control tellurium. Thus, the specific surface area of Biofield Energy Treated tellurium powder (0.362m²/g) was significantly decreased by 18.65% compared with the control sample (0.445m²/g). Overall results envisaged that Biofield Energy Healing Treatment might have generates a new polymorphic form of tellurium which would show better thermal stability and powder flowability compared with the control sample. The Trivedi Effect® Treated tellurium would be very useful for the metal industry (in iron, stainless steel, copper, and lead alloys), cadmium telluride solar panels, pigments for ceramics, glass optical fibers for telecommunications, vulcanization of rubber, blasting caps, tellurite agar to identify members of the Corynebacterium, catalysts for the heterogeneous reactions, production of iodine-131 by neutron bombardment, etc.

Keywords: Tellurium; Consciousness energy healing treatment; The trivedi effect®; PXRD; Particle size; TGA/DTG

Introduction
Tellurium (Te) is a chemical element present in the Earth’s crust only in about 0.001 parts per million. It is found combined in the minerals like calaverite, sylvanite, and tellurite. The tellurium allotrope crystalline form is silvery-white with a metallic luster; brittle, and can be easily pulverized; however, the amorphous allotrope form is black-brown powder [1]. ¹²⁰Te, ¹²²Te, ¹²³Te, ¹²⁵Te, ¹²⁷Te, ¹²⁸Te, and ¹³⁰Te are the eight naturally available isotopes of tellurium. The tellurium has no biological function established properly, but some of the organism like fungi utilize it instead of sulfur and selenium into amino acids such as tellurocysteine and telluro-methionine [2]. Many bacteria, such as Pseudomonas aeruginosa and yeast also use it for a different purpose [3,4]. The electrical conductivity of tellurium high, thus it is used as a semiconductor [5]. Tellurium has many industrial applications, i.e., to improve their strength and hardness of metals (in iron, stainless steel, copper, and lead alloys), cadmium telluride (CdTe) is used for the solar panels, glass optical fibers for telecommunications, pigments for ceramics, vulcanization of rubber, blasting caps, tellurite agar to identify members of the Corynebacterium, catalysts for the heterogeneous reactions, production of iodine-131 by neutron bombardment, etc.
The physicochemical properties of metal play a very important role in manufacturing and other industrial purposes. It was scientifically proven by many experiments that the Trivedi Effect*-Biofield Energy Healing Treatment has the significant impact on the particle size, surface area, chemical and thermal properties of metals, ceramics, etc. [13-15]. The Trivedi Effect® is a natural and only scientifically proven phenomenon in which an individual can harness this inherently intelligent energy from the “Universe” and transmit it anywhere on the planet through the possible mediation of neutrinos [16]. There is a unique infinite, para-dimensional electromagnetic energy field exists surrounding each and every living organism’s body known as the “Biofield”. The Biofield based Energy Healing Therapies have been reported to have significant performance curing various disease [17]. The National Institutes of Health (NIH) and the National Center for Complementary and Alternative Medicine (NCCAM) applaud and included the Energy therapy under Complementary and Alternative Medicine (CAM) category along with other complementary therapies (i.e., Yoga, Ayurveda, Reiki, etc.) which has been accepted by the most of the U.S.A. people [18,19]. The outstanding outcome of the Trivedi Effect*-Consciousness Energy Healing Treatment also on polymers [20,21], nutraceuticals [22,23], pharmaceuticals [24-26], organic compounds [27-29], cancer cells [30,31], microorganisms [32,33], and crops [34,35] have been widely reported with scientifically experimental data. Therefore, one such experiment was designed to determine the impact of the Trivedi Effect*-Consciousness Energy Healing Treatment on the physicochemical properties of tellurium metal powder using modern analytical techniques.

Materials and Methods

Chemicals and reagents

Tellurium metal powder was purchased from Sigma Aldrich (USA) and other chemicals required during the experiments were purchased from India.

Consciousness energy healing treatment strategies

The tellurium metal powder sample was divided into two parts and termed as a control and the Biofield Energy Treated sample. One control sample did not receive the Biofield Energy Treatment was provided but it was treated with a “sham” healer. The “sham” healer did not have any knowledge about the Biofield Energy and the Biofield Energy Treatment. However, the second part of tellurium so called the Biofield Energy Treated sample received the Trivedi Effect*-Consciousness Energy Healing Treatment remotely under standard laboratory conditions for 3 minutes through the healer’s unique energy transmission process by the renowned Biofield Energy Healer, Mahendra Kumar Trivedi, USA. After the treatment, both the samples were kept in sealed conditions and characterized using modern analytical techniques.

Characterization of tellurium

Powder X-ray Diffraction (PXRD) analysis

The powder X-ray diffraction analysis of the test samples (control and Biofield Energy Treated tellurium metal powder) was performed with the help of Rigaku MiniFlex-II Desktop X-ray diffractometer (Japan) [36,37]. The size of the individual crystal was calculated from XRD data using the Scherrer’s formula (1)

\[ G = \frac{k\lambda}{\beta \cos \theta} \]

Where k is the equipment constant, G is the crystallite size in nm, \( \lambda \) is the radiation wavelength, \( \beta \) is the full-width at half maximum, and \( \theta \) is the Bragg angle [38].

The % change in peak intensity, crystallite size, and average crystallite size of tellurium was calculated using the following equation 2:

\[ \% \text{ change} = \frac{[\text{Treated} - \text{Control}]}{\text{Control}} \times 100 \]

Particle size analysis (PSA)

The particle size analysis of tellurium metal powder was conducted on Malvern Mastersizer 2000, the UK using wet method [39,40]. The \( d(0.1) \), \( d(0.5) \), \( d(0.9) \) represent particle diameter corresponding to 10% 50% and 90% of the cumulative distribution. \( D(4,3) \) represents the average mass-volume diameter, and \( \text{SSA} \) is the specific surface area (m\(^2\)/g). The calculations were done by using software Mastersizer Ver. 5.54. The % change in the surface area and particle size for tellurium at below 10% level \( (d_{0.1}) \), 50% level \( (d_{0.5}) \), 90% level \( (d_{0.9}) \), and \( D(4,3) \) was calculated using the following equation 2.

Results and Discussion

Powder X-ray Diffraction (PXRD) analysis

The powder XRD diffractograms of the test samples (control and Biofield Energy Treated tellurium powder) showed sharp and intense peaks (Figure 1) indicated that both the samples were crystalline in nature. The control and Biofield Energy Treated tellurium showed the highest peak intensity at 28 equal to 27.45° and 27.66°, respectively (Table 1, entry 3). The peak intensities of the Biofield Energy Treated tellurium were altered ranging from -52.53% to -29.03% compared with the control sample. Similarly, the crystallite sizes of the Biofield Energy Treated tellurium sample were significantly altered in the range from -5.32% to 56.51% compared to the control sample. Though, the average crystallite size of the Biofield Energy Treated tellurium was significantly increased by 21.37% compared with the control sample.

The variations in the crystallite sizes and peak intensities indicated some modification happened in the crystal properties in the Biofield Energy Treated tellurium compared than control tellurium. The peak intensity of each diffraction face of the crystal changes according to the crystal morphology [41], and alterations in the crystal size pattern provide the proof of polymorphic transitions [42,43]. The Trivedi Effect® is believed to have potential to alter the status of proton and neutrinos in the nucleus of an element. Therefore, the Trivedi Effect*-Consciousness Energy Healing Treatment probably introduced a new polymorphic form of tellurium via neutrino oscillation [16]. As per different
scientific study different polymorphic forms of a compound have the significant effects on the thermodynamic and physicochemical properties like melting point, stability, and solubility are different from the parent form [44,45]. Thus, it can be anticipated that the Biofield Energy Treated tellurium would be better for the industrial applications.

![Figure 1: PXRD diffractograms of the control and Biofield Energy Treated tellurium.](image)

| Entry No. | Bragg angle (°2θ) | Peak Intensity (%) | Crystallite size (G, nm) |
|-----------|-------------------|--------------------|--------------------------|
|           | Control | Treated | Control | Treated | % change | Control | Treated | % change |
| 1         | 22.91   | 23.09   | 99       | 47      | -52.53   | 338     | 491     | 45.27    |
| 2         | 26.06   | 26.27   | 61       | 29      | -52.46   | 354     | 473     | 33.62    |
| 3         | 27.45   | 27.66   | 350      | 218     | -37.71   | 336     | 442     | 31.55    |
| 4         | 38.14   | 38.36   | 135      | 87      | -35.56   | 351     | 417     | 18.8     |
| 5         | 40.34   | 40.54   | 152      | 83      | -45.39   | 330     | 366     | 10.91    |
| 6         | 43.2    | 43.51   | 31       | 22      | -29.03   | 292     | 457     | 56.51    |
| 7         | 48.47   | 48.63   | 39       | 21.5    | -44.87   | 259     | 294     | 13.51    |
| 8         | 49.54   | 49.77   | 74       | 49.2    | -33.51   | 376     | 356     | -5.32    |
| 9         | 56.78   | 56.94   | 35       | 19      | -45.71   | 468     | 568     | 21.37    |
| 10        | 67.53   | 67.89   | 21.9     | 12.1    | -44.75   | 406     | 396     | -2.46    |
| 11        |         |         |          |         |          | 351     | 426     | 21.37    |

*denotes the percentage change in the peak intensity of Biofield Energy Treated sample with respect to the control sample;  
*denotes the percentage change in the crystallite size of Biofield Energy Treated sample with respect to the control sample.
Particle size analysis (PSA)

The particle size distribution data of both the control and Biofield Energy Treated tellurium powder are presented in Table 2. The particle size values of the control tellurium powder at \(d_{10}\), \(d_{50}\), \(d_{90}\), and \(D(4,3)\) were 6.29\(\mu m\), 21.3\(\mu m\), 64.46\(\mu m\), and 29.16\(\mu m\), respectively. Moreover, the particle size values of the Biofield Treated tellurium powder at \(d_{10}\), \(d_{50}\), \(d_{90}\), and \(D(4,3)\) were 7.68\(\mu m\), 27.02\(\mu m\), 72.79\(\mu m\), and 34.35\(\mu m\), respectively. Consequently, the particle size values in the Biofield Energy Treated tellurium were significantly increased at \(d_{10}\), \(d_{50}\), \(d_{90}\), and \(D(4,3)\) by 22.24\%, 26\%, 12.92\%, and 17.78\%, respectively compared to the control sample. Therefore, the specific surface area of Biofield Energy Treated tellurium powder (0.362\(m^{2}/g\)) was significantly decreased by 18.65\% compared with the control sample (0.445\(m^{2}/g\)). From the results, it was anticipated that the Trivedi Effect®-Consciousness Energy Healing Treatment might be acting like an energy mill which increased the size of the particles; hence increased the surface area of the Biofield Energy Treated tellurium compared to the control sample. The increased particle size of tellurium definitely improves the physicochemical and thermal behaviour. Thus, the Biofield Energy Treated tellurium might offer better flowability and thermal stability compared to the control sample.

Table 2: Particle size distribution of the control and Biofield Energy Treated tellurium.

| Parameter       | \(d_{10}\) (\(\mu m\)) | \(d_{50}\) (\(\mu m\)) | \(d_{90}\) (\(\mu m\)) | \(D(4,3)\) (\(\mu m\)) | SSA \(m^{2}/g\) |
|-----------------|-------------------------|--------------------------|------------------------|--------------------------|-----------------|
| Control         | 6.29                    | 21.3                     | 64.46                  | 29.16                    | 0.445           |
| Biofield Treated| 7.68                    | 27.02                    | 72.79                  | 34.35                    | 0.362           |
| Percent change° (%) | 22.24               | 26.86                    | 12.92                  | 17.78                    | -18.65          |

\(d_{10} \), \(d_{50}\), and \(d_{90}\): particle diameter corresponding to 10\%, 50\%, and 90\% of the cumulative distribution, \(D(4,3)\): the average mass-volume diameter, and SSA: the specific surface area.

° denotes the percentage change in the Particle size distribution of the Biofield Energy Treated sample with respect to the control sample.

Conclusion

The Biofield Treatment (the Trivedi Effect®) showed significant effects on the peak intensities, crystallite size, particle size, surface area, and thermal properties of tellurium powder. The powder XRD peak intensities and the crystallite sizes of tellurium powder sample were significantly altered ranging from -52.53\% to -29.03\% and -5.32\% to 56.51\%, respectively compared with the control tellurium. While the average crystallite size of the Biofield Energy Treated tellurium was significantly increased by 21.37\% compared with the control sample. The particle size values in the treated tellurium were significantly increased at \(d_{10}\), \(d_{50}\), \(d_{90}\), and \(D(4,3)\) by 22.24\%, 26\%, 12.92\%, and 17.78\%, respectively compared with the control sample. Therefore, the specific surface area of the treated tellurium powder (0.362\(m^{2}/g\)) was significantly decreased by 18.65\% compared with the control sample (0.445\(m^{2}/g\)). Overall, the study findings concluded that the Biofield Treatment might have generates a new polymorphic form of tellurium, which would show better thermal stability and powder flowability as compared with the control sample. The Trivedi Effect® Treated tellurium would be very useful for the metal industry (in iron, stainless steel, copper, and lead alloys), cadmium telluride solar panels, pigments for ceramics, glass optical fibers for telecommunications, blasting caps, alloys), cadmium telluride solar panels, pigments for ceramics, glass optical fibers for telecommunications, blasting caps, etc.

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