

ASX RELEASE



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ESENSE-LAB REPORTS MAJOR PROGRESS IN R&D

- **Major progress in R&D shows a clear antioxidant activity with the Company's terpenes strains**
- **Strengthens eSense penetration to the medical cannabis markets**
- **Significantly strengthens eSense's IP**
- **Expands eSense's ability compared with competitors**
- **Opens new revenue generating markets**

Life sciences company **eSense-Lab Ltd ("eSense" or the "Company") (ASX: ESE)** is pleased to announce it has achieved an excellent progress in its Research and Development ("R&D") activity demonstrating a robust antioxidant activity for its medical cannabis terpene blends, manifested by a dose response of up to 5%. Terpenes are responsible for the aroma of cannabis.

Free radicals are harmful molecules usually generated as part of our body waste following a routine metabolic activity. In addition, our routine way of life involves a constant exposure to toxic materials such as pollutants, UV radiation and other particle matters that penetrate in to our body and lead to the formation and accumulation of free radicals.

Free radicals are unstable molecules that once accumulate in our body responsible for a massive destruction of proteins, lipids, DNA and other tissues leading to the occurrence of inflammatory diseases and the acceleration of aging processes. The ability of our body to fight free radicals is the key mechanism to reduce inflammatory diseases and maintain healthy and young body.

eSense conducted a serial of testing for an antioxidant activity across its medical cannabis terpene blends including Girl Scout Cookies, OG-Kush, Sour Diesel, Jack Herer, Daniel, Super Lemon Haze, Gorilla Glue, Chees and Granddaddy Purple.

A clear antioxidant activity could be seen for each one of the tested blends. Girl Scout Cookies, OG-Kush, Sour Diesel, Jack Herer and Daniel presented the most potent antioxidant activity, while Super Lemon Haze, Gorilla Glue, Chees and Granddaddy Purple were slightly weaker but still significantly active. Chees and Gorilla Glue were tested in alignment with similar competitor's formulations and were found to be dramatically more potent in terms of antioxidant activity.

Above all, by fractioning the major terpene constituent of Jack Here and testing each one of them for an antioxidant activity, eSense was fortunate to show that the antioxidant activity of each major terpene tested alone and in a mixture was significantly weaker than the antioxidant activity of the full Jack Here blend (comprising a mix of 40 different terpenes). This observation supports the entourage notion of cannabis terpenes showing a significant antioxidant potency when acting as a whole in comparison to acting as single molecules.

Commenting on the developments, eSense CEO Haim Cohen said: “We are very excited about this progress. eSense continually achieves new R&D heights, providing an ability to significantly strengthen our IP as well as discovering new opportunities in revenue generating markets. Without doubt our team has shown its unique ability in the medical cannabis space and we’re continuing to take strides to becoming a leader in this market.”

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eSense-Lab Ltd (ASX: ESE) is a life sciences company specialising in the commercialisation of the phytochemical profiling of plants. The Company combines genetics, mRNA, protein expression and phytochemical profiles to generate a comprehensive model of rare or high value plants. eSense-Lab can then use this model to ‘reverse engineer’ a terpene profile, which is a naturally occurring formulation of different individual terpenes which together account for many of the plant’s health and medical benefits, whilst also exactly replicating the flavour, fragrance and other desired characteristics of the targeted plant, at a more sustainable and cheaper cost

To learn more about eSense-Lab, visit www.esense-lab.com