



LILI'S NEW CHEM

COLOR'S REVOLUTION

I would like to introduce this new platform to publish my glimpse reports from my research on new compounds by my process using mechanochemistry as a tool. Regularly, I will present new molecules/compounds that I am producing by sustainable and clean chemistry without waste, without purification steps among others advantages according

with my international patent applications (patent pending).¹

Wellcome to Lili's New Chem. I prefer to use my nickname lili rather than my last name Ramirez Rios to emphasise that I am a woman and a woman of color revolutionalising colors among other fields of science.

ON A NEW PIGMENT/DYE FROM CURCUMIN Curlinnar GJ Red-C.I. natural yellow 3:1(C.I 75300:1)²

Curcumin is a compound that belongs to the family of the polyphenols and/or β -diketones compounds. It is massively used as condiment in many dishes commonly in Indian cuisine that it is not pleasant for many people

Here, I would like to present my new pigment/dye based on curcumin that it is very stable to light, storage, temperature, etc. (see Fig. 1) The way to produce this new pigment/dye is very simple, rapid and

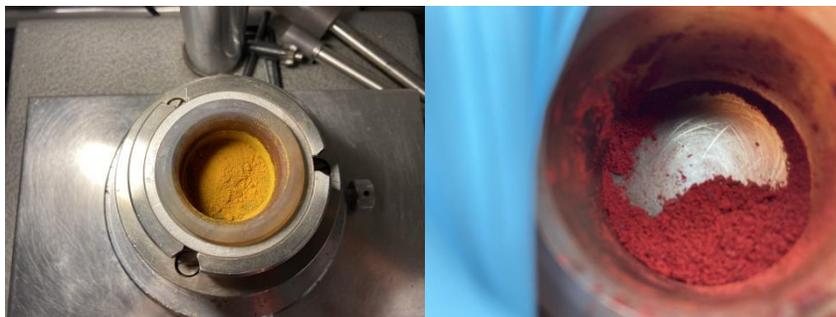


Fig. 1: Yellow curcumin extract from the corner's store and red curcumin compound from it according to Lili's new chemistry

because its astringency and characteristic odor and flavor. Other applications as a dye or medicines are not common due to the marked instability of curcumin to environmental conditions such as light, temperature and solvents..

environmental friendly since no solvents are added and not waste or by products are produced. Just imagine that millions of tons of curcumin that are cultivated annually can be converted to a gorgeous red pigment in only a few minutes with several applications for instance for replacing many red toxic dyes based on pure petroleum chemistry.

This new curcumin pigment or the process to produce it can be used as a dye or hair dyeing technique such as the *in loco hair dyeing complexation* (see my patents for more details and Fig. 2).

This red curcumin complex can be used as a sindoor to avoid/replace the toxic red dyes containing mercury,

lead or toxic red dyes which are common used by women.



Fig. 2: Control hair tresses and hair tresses after dyeing using *in loco hair dyeing complexation* technique with the curcumin from the corner's store according to Lili's new chemistry (A1). Curly and gray hair tresses were kindly donated by a woman of color in her middle age.

¹ WO2019238261A1 and WO2021121647A1

²The Colour Index™ colour-index.com published online by Society of Dyers and Colourists and American Association of Textile Chemists and Colorists

GLYMPSE #: CURLINNAR GJ RED (C.I. 75305:1) - A RED CURCUMIN COMPLEX

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