

# DEPARTMENT OF BOTANY PROJECT WORK ON TANNINES



FROM: B.Sc SECOND SEMESTER STUDENTS-2019-20

M.G.V.C.ARTS, COMMERCE AND SCIENCE COL

## **MUDDEBIHAL 586212**

# CERTIFICATE

# DEPARTMENT OF BOTAN

Examination Seat. No: 51827828

Class- B.Sc Second Semester

This is certify that Mr/ Miss. Zebannuskan. M. Sandagas Has satisfactorily completed the project work on landa

Gungelonder my supervision in M.G.V.C. Arts, Comm and Science college Muddebihal during the year 2019-2020.

Staff member Incharge

VALUED Examiner's Date:

M.G.V.C. College, MUDDEBIHAL-586212 Dist: Bijapur.

M. G.V. C. Arts, Com. & Science College MUDDEB|HAL - 586212



### **Tannins**

Tannins: - A yellowish or brownish bitter, - tacting organic substance present in some galls, barks, and other piant tissues, consisting of derivatives of gallic.acid.

#### 1. Catechin:-

Intruduction: - A catechin is a type of antioxidant. A substance and in tea that helps protect cells from damage, caused by free sadicals

Properties: Chemical formula : C<sub>15</sub>H<sub>14</sub>O<sub>6</sub>

Molar mass : 290.271g.Mol<sup>-1</sup>

Appearance : Colarless solid

Melting point : 175to177°C(347 to 351°F;448 to 450K)

Uv-Vis(¥max) : 276nm

Chiral rotation : +14.0°





#### 2. Gingeral :-

Intruduction: Gingeral properly os [6]-gingerel, is achemical compound found in fresh ginger chemically gingerol is a relative of capsaocin & piperine the compound which gives chilli & pepper

Properties:-

Chemical formula

C<sub>17</sub>H<sub>26</sub>O<sub>16</sub>

Molar mass

294.38gmol<sup>-1</sup>

Melting point

:30to32<sup>0</sup>C(86to90<sup>0</sup>F;303to305k)



#### Molecular Struture:-

Sources:- 6- Gingerol is isdated from the shizomes or roats of the plant zingiber officinale (ginger)

#### Uses:-

- Gingeral has been used by humans for medicinal purposes & as spice condiments to enhance flower in cooking
- 2. Ithas been used to help digestion

#### Curcuminoida:-





#### Intruduction :- A member of Ginger family

A Curcumnoids is a linear diarylheptanoid, with molicules such as curcumin ordesiatives of curcumin with different chemical groups these compounds are natural phenois & produce a pronounced yellow color

Properties:- Chemical formula : C<sub>12</sub>H<sub>20</sub>O<sub>6</sub>

Molar mass : 368.385g.mol<sup>-1</sup>

Appearance : Bright yellow -orange powder

Melting point : 183°C(361°F;456K)

#### Molecular Struture:-

#### Curcumin

Enol form

Sources:- Curuminoid is a chemical compound found in turmesic & is responsible for the distinctive, color of the spice & the wealth of benefits

<u>Uses</u>:- Curuminoid can alleviatr or treat the symptoms associated with alzheimer's disease, cances, including breast, lung. Prostate & colon cancess.