

# **Phytochemical Studies of *Fragaria × ananassa***

A PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT

OF THE REQUIREMENTS FOR THE DEGREE OF

MASTER OF SCIENCE

in

ORGANIC CHEMISTRY

by

KARAN BORSANIYA

Under the Supervision of

Dr. ASHISH NAGAR



DEPARTMENT OF CHEMISTRY

PARUL INSTITUTE OF APPLIED SCIENCE

LIMDA-391760, VADODARA, GUJARAT, INDIA

2020

## Index

S.N.	Content
I.	Abstract
II.	Objective
1.	Introduction
2.	Materials and Methods
3.	Preliminary phytochemical investigation of the extract
4.	Column Chromatography (CC)
5.	Conclusion and Results
6.	References

## Abstract

Consumption of a phytochemical-rich diet reduces the risk of certain chronic diseases such as cancer and cardiovascular diseases. *Fragaria × ananassa* (Strawberry fruits) are a rich source of phytochemicals from which phenolic compounds are obtained in abundance. Phenolic compounds have potent antioxidant, anticancer, anti-atherosclerotic and anti-neurodegenerative properties in both in vitro and in vivo studies. Strawberry phenolics consist of large polymeric compounds like ellagitannins and gallotannins, as well as monomeric molecules