

## DRUG STANDARDIZATION RESEARCH PROGRAMME (CHEMISTRY)

One of the main thrust area of the Council is to develop quality standards of single and compound formulations and Standard Operating Procedures (SOP) through its peripheral institutes, viz CSMRIA&SDD, Chennai (NABL accredited lab), NRIADD, Kolkata, NIAPR, Patiala, NRIASHRD, Gwalior and NRIP, Cheruthuruthy. The aim of standardization is to scientifically validate the quality and safety of single drugs of herbal, mineral/ metal and animal origin, and also compound formulations as per API guidelines. For this purpose some of the important parameters incorporated in the format are TLC/ HPTLC finger printing profile, determination of microbial load, heavy/toxic metals, pesticide residue, aflatoxins etc. besides physico-chemical parameters.

The units of Council are working to generate data on standardization, development of standard operating procedures and physico-chemical analysis of Ayurvedic drugs. Other than that testing of formulation for quality control for the drug used for clinical trial/OPD has also being performed regularly.

<b>Current activities (Including carry forward programmes)</b>		
<b>S.No.</b>	<b>Project/Activity</b>	<b>Objectives</b>
1.	<b>Ayush Rasayana-B capsule and Ayush Rasayana-A</b>	Standardization
2.	<b>Ayush- QOL 2C</b>	Standardization
3.	<b>Ayush-Manas</b>	Standardization
4.	<b>CARTOL</b>	Standardization
5.	<b>Ayush-A</b>	Standardization
6.	<b>Ayush-D</b>	Standardization
7.	<b>Ayush K1</b>	Standardization
8.	<b>Ayush-C1 Oil</b>	Standardization
9.	<b>Nimbtiktam Capsule</b>	For Psoriasis.

## IMR Projects undertaken in Chemistry Section

<b>S.No.</b>	<b>Name of the Project</b>
1.	Development of marker Compounds for 12 Medicinal Plants, given in AFI
2.	The Standardization and Quantification of 3 (Three) Ayurvedic Plants in respect to the Biologically Active Marker Compounds
3.	Isolation of marker compounds of some selected medicinal plants
4.	Comparative phyto-chemical study of root/root bark/heart wood versus aerial parts of Ayurvedic drugs.
5.	Identification & quantitative estimation of marker compound/PRS for quality assurance/phyto-chemical evaluation finished drugs & ingredients used in various important coded formulations (Ayush QCL-2c, Ayush Manas and Ayurs Rasayan A & B) developed by CCRAS.
6.	Comparative phytochemical study of root/Root bark/Stem bark/ Heartwood versus Aerial part of Ayurvedic Drugs"
7.	Preparation of Nimbatiktam 200 mg. capsule"
8.	Shelf life of Curna
9.	Shelf life of Tail

10.	Shelf life of Ghrita
11.	Shelf life of Vati

**Publications-** So far the following publications have been made.

1. Application of standardized Namburi Phased Spot Test in identification of Bhasma and Sindura preparations of Ayurveda.
2. Pharmacopoeial Standards for Ayurvedic Formulations.
3. Phyto-chemical investigations of certain Medicinal Plants used in Ayurveda.
4. Parameters for quality assessment of Ayurveda and Siddha drugs.
5. Laboratory Guide for Analysis of Ayurveda, Siddha & Unani Drugs.