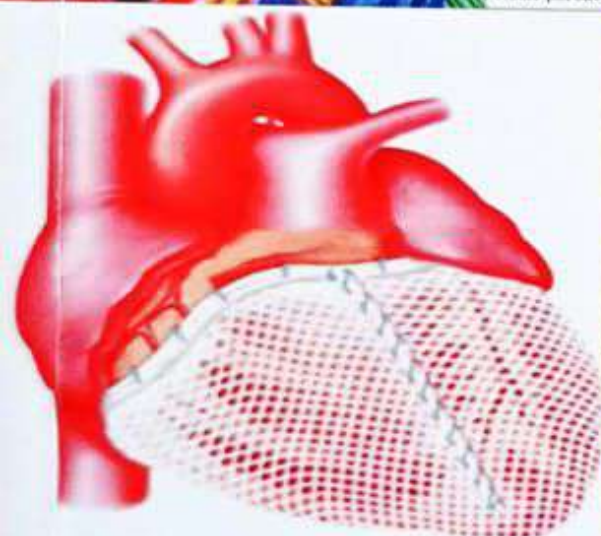
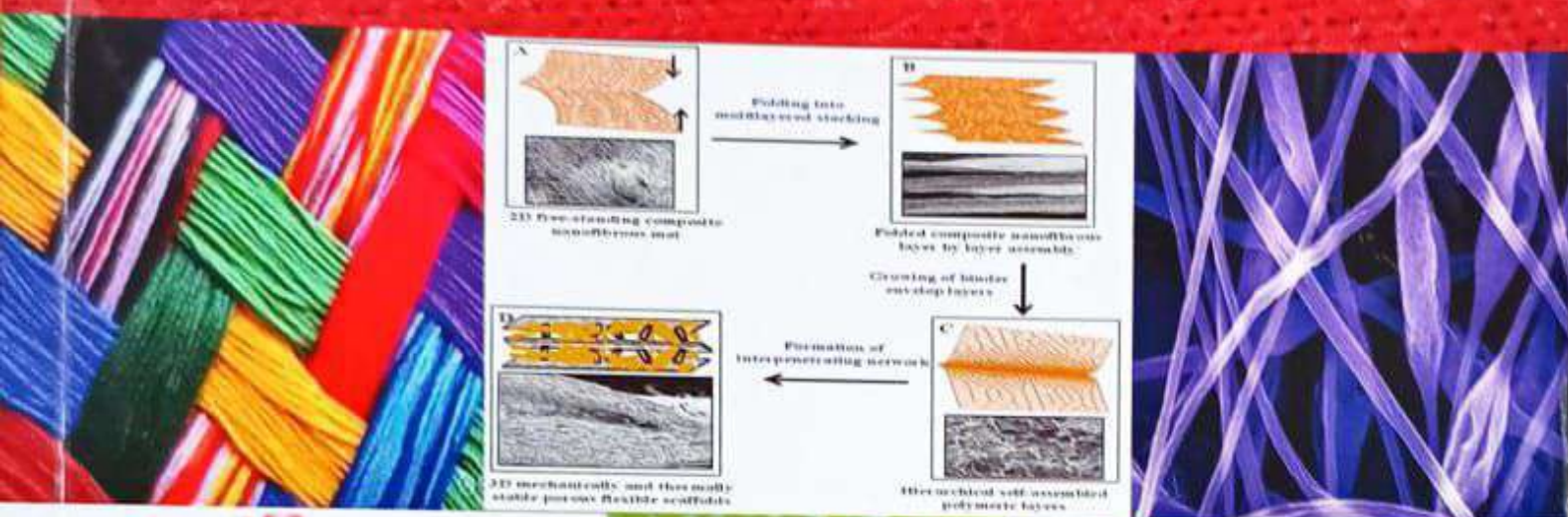


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Gram Stain Property of the Aroma Finish on Knitted Material

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Abstract

An attempt at obtaining aromatherapeutic textiles which were carried out is presented, together with the broad background of research into aromachology investigation. The fabric developed with aromatherapeutic textiles using the fragrance as solvent. Effects for emotion and the pharmaceutical effects of essential oils are presented in detail, on the basis of the achievements of aromachology and aromatherapy. Research shows that the effects of fragrance on humans are based on a great deal of medical experience. Essential oils viz., vanilla oil and ylang-ylang oil, with carrier oils of grape seed and jojoba are mixed in two concentrations i.e 1:2 and 1:4. The natural polymer used as binder is gelatin and chitin. The combination yielded 16 samples. The finishing was given by padding mangle machine. The essential oils and carrier oils were mixed and kept in dark condition for 24hr. After 24hr the oils were mixed with binders with the help of high speed mixer and the paste was applied on the fabric. The fragrance infusion compounds were fixed onto cotton material with a binder was applied on knitted material of inner wear acts as a second skin to the body. The fabrics were tested for general geometrical properties, bacterial tests like gram stain and survey method were used to assess the efficiency of the treatment of Gram Stain property of the aroma finish on knitted material.

Keywords: Aromatherapeutic, Essential oils like Vanilla oil and Ylang-Ylang oil, Carrier oils of Grapeseed and Jojoba, Gelatin binder and Chitin binder, Knitted material, Gram Stain

I. Introduction

Aromatherapy is an alternative health methodology founded on amore holistic approach to coping with health problems and complaints. Aromatherapy has provided relief and beneficial results for a vast array of conditions. These include treatment of skin care complaints such as dermatitis, acne, eczema, psoriasis, cellulite, varicose veins and stretch marks, among others. Aromatic textiles are designed to transfer an active substance for healing purposes. The principle is achieved by simply imparting the essential oils into the fabric of clothing so that with the natural movement of the body, the skin is slowly freshened and revitalised. Theory of application is based on insertion of microcapsules of natural substrates in the fibre/ fabric. They are spread throughout the fabric forming millions of tiny capsules. During activity and movements tiny capsules inside the fabrics break up and release substances giving natural aroma and pleasant feeling. Contact with human body and skin. Textiles have long been recognised as media to support the growth of microorganisms such as bacteria and fungi. These microorganisms are found almost everywhere in the