



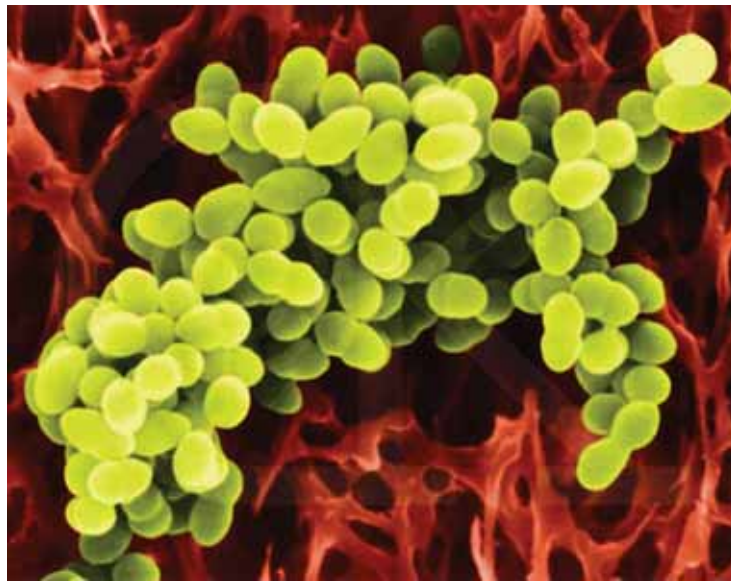
Kalichem
Italia s.r.l.

BATTERIKAL

Natural antibacterial action

*Recommended for acne problems,
seborrhoea,
unpleasant odours
and various infections.
With a hygienic action.*

DESCRIPTION



BATTERIKAL is a functional ingredient with a superficial antibacterial action (it is a bactericide) it is useful for cutaneous disorders related to an increase of bacterial microflora, biologically present on the skin.

PROPERTIES

BATTERIKAL is completely tolerable even by the most sensitive skin and can be easily associated with a medical dermatological treatment to help in curing acne, seborrhoea, couperose and many other dermal infections.

These kind of skin problems often affect the patient psychologically and make it impossible for him/her to lead a normal social life.

The antibacterial action which improves the acne condition is the result of a combined mechanism:

- Presence of several bacteria, in particular: *Propionibacterium acnes* or *Staphylococcus epidermidis*
- Sebum overproduction caused by keratinocytes hypertrophy

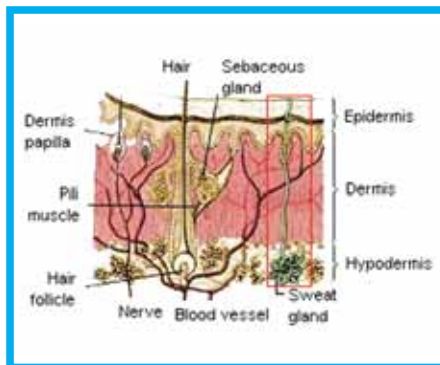
In all cases it is necessary to prescribe a cosmetic product. Problematic skin is indeed very irritable, dry and in need of specific care.

Moreover, **BATTERIKAL**, when mixed with other cosmetic preparations, can also be used in the everyday cleansing and detergency of the skin of both infants and the elderly.

Head Office and Production:
Via G. Pastore, 1
25082 Botticino Sera (BS) Italy
Tel: +39.030.2693532
Fax: +39.030.2193581
e-mail: kalichem@kalichem.it
www.kalichem.it

BATTERIKAL

BATTERIKAL can solve the problem of unpleasant odours which are caused by bacterial decomposition of the body's secretions, especially perspiration. Humidity and heat often favour the sweat glands' microflora production, causing a higher level of enzymic degradation of the cutaneous flora responsible for unpleasant odours. This bacterial flora is made up of aerobic and anaerobic micro organisms which are mainly formed by *Staphylococcus epidermis* and *Corynebacterium xerosis*.



Tests

Vitro evaluation of BATTERIKAL activity (5%), with the determination of the bactericide and inhibitor minimum concentration (MIC e MBC).

	COLONIE	MIC	MBC
Strains related to vaginal infections	Streptococcus	yes	yes
Strains related to vaginal infections	Torulopsis glabrata	No	No
Strains related to vaginal infections	Candida albicans	No	No
Strains related to acne	Propionibacterium acnes	yes	yes
Strains related to acne	Staphylococcus	yes	yes

The following dilutions have been employed 1/400, 1/500, 1/1000, 1/2000, 1/4000

MIC : minimum inhibitor concentration

MBC: minimum bacterial concentration

Torulopsis glabrata and Candida albicans are mycetes.

In the studies carried out, no activities or fungus colonies have been noted.

An effect on *Staphylococcus aureus*, *Streptococcus*, *Propionibacterium acnes* is clearly evident.

Technical data

ASPECT:	LIMPID LIQUID OILY CONSISTENCY
COLOUR	YELLOW
ODOUR:	CHARACTERISTIC
DENSITY :	0,9 – 0,95 g/ml
TOTAL MICROBIC COUNT:	< to 1000 cfu/g

INCI NAMES	CTFA NAMES	N° CAS
Balsam Copaiba	Copaifera Officinalis (Balsam Copaiba) Resin	8001-61-4
Olea Europaea	Olea Europaea (Olive) Fruit Oil	8001-25-0
Andiroba Oil	Andiroba Oil	
Manuka Oil	Lectospermum Scoparium Oil	