Supplement 1: Inclusion and exclusion criteria

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| Inclusion criteria | |
| Age and gender | * Male or female * Age between 2 and 12 years or between 18 and 65 years at admission |
| Consent | * Signed declaration of consent by adult participants * For children aged 6-12 years: consent of the child and written consent of the parent/guardian * For children under 6 years of age: written consent from parent/guardian |
| Diagnosis | * Diagnosis of atopic dermatitis (AD) according to the criteria of Hanifin and Rajka |
| Severity of AD | * Mild severity, defined as Eczema Area and Severity Index (EASI) < 7 |
| General state of health | * Generally good and stable health, confirmed by medical history and physical examination * Individuals with stable medical conditions (e.g. treated hypertension, type II diabetes mellitus, hypercholesterolemia, osteoarthritis) may be included provided their medication is not one of the excluded or disallowed medications |
| Sun exposure | * Willingness to avoid intense and direct sunlight and visits to the solarium during the study |
| Skin care procedures | * Consent to use the same skin cleansing procedures during the study, including bathing/showering products |
| Dermatological conditions | * Free of dermatologic conditions or skin affections that could interfere with the study assessments (e.g. scars or other lesions on the study areas) |
| Exclusion criteria | |
| Comprehension and consent | * Persons, parents or legal guardians who are unable to understand the information and give their consent due to language or psychiatric reasons |
| Legal or administrative restrictions | * Persons, parents or legal guardians who have lost their freedom by administrative or legal decision or who are under guardianship |
| Compliance with the study requirements | * Persons, parents or legal guardians who are unable to comply with the study-related restrictions |
| Participation in other studies | * Persons who are currently participating in another study or are in the exclusion period of another study |

**Supplement 1 legend:**

This table provides an overview of the specific inclusion and exclusion criteria used to determine participant eligibility