

MOVE FREELY

LIVE FULLY



✓
JOINT
HEALTH

✓
PROVEN
EFFICACY

✓
NATURAL
ORIGIN
INGREDIENT

✓
REGULATORY
APPROVED

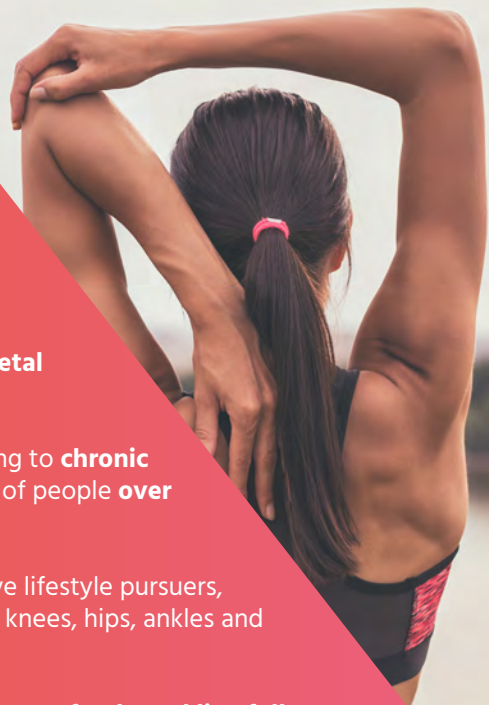
xelflex™

JOINT HEALTH: a multigenerational opportunity

- ✓ 1.7 billion people worldwide are affected by musculoskeletal and joint conditions¹.
- ✓ Among those, osteoarthritis is a very common disease, leading to **chronic pain, loss of joint function, and reduced mobility: 33 to 50% of people over 65 are affected by mobility loss².**
- ✓ Joint problems are also common among sportsmen and active lifestyle pursuers, due to the repetitive pressure and wear and tear on joints, with knees, hips, ankles and elbows being most affected.
- ✓ Taking care of your joint health early on ensures you can move freely and live fully!



With Xelflex[®], there is a **brand-new solution to help reduce joint discomfort.**



XELFLEX[®], a bioactive ingredient with joint health benefits

- ✓ Xelflex[®] is a **milk protein hydrolysate** with an **anti-inflammatory effect**. Several studies showed that consumption of dairy products was associated with lower low-grade systemic inflammation^{3,4,5}.
- ✓ Xelflex[®], has a proven efficacy in **reducing inflammatory markers and oedema**.
- ✓ Xelflex benefits from a consumer study showing **significant results on inflammation, pain and mobility**.



Thus, Xelflex[®] can support joint comfort.

¹ WHO, 2021.

² Mobility : Harvard Health Publishing[®], 2022.

³ Labonté et al., 2013 / ⁴ Schmid et al., 2015 / ⁵ Panagiotakos et al., 2010.



SCIENTIFICALLY PROVEN EFFICACY

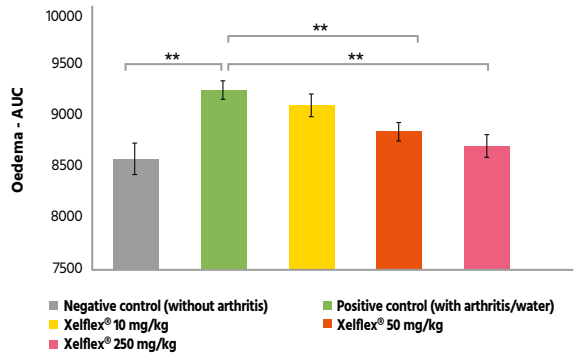
PRECLINICAL STUDIES ON INFLAMMATORY MARKERS AND OEDEMA

Xelflex® has an **inhibitor effect** on cytokines (IL-10, IL-1 β and TNF- α) showing an **anti-inflammatory effect** similar to dexamethasone, which is an anti-inflammatory drug.

Xelflex® effects were evaluated in arthritic mice with induced knee joint oedema.

Supplementation with Xelflex® at **50 mg/kg and 250 mg/kg** induced a **significant reduction of oedema** compared to mice receiving vehicle (positive control).

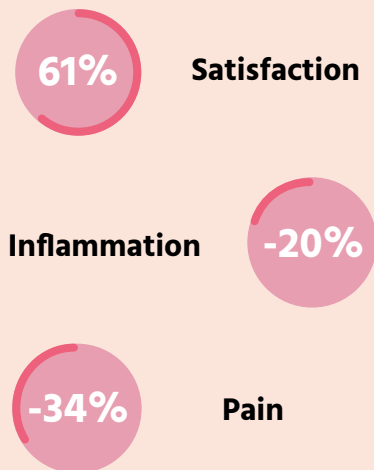
FOLLOW UP OF OEDEMA FORMATION



BENEFICIAL EFFECTS VALIDATED BY CONSUMERS (INTERMEDIATE RESULTS AT 30 DAYS)

Consumer study on **66 seniors and 65 athletes** with joint disorders, **250 mg** once a day **during 30 days**. **From day 15 onwards, joint inflammation level and joint pain intensity decrease significantly.***

SENIORS (mean age : 62 years old)



ATHLETES (mean age : 38 years old)



*statistically different results vs. baseline.

RECOMMENDED DOSE:



250 mg/day

FEATURES:

- ✓ **Easily incorporated** in food supplements (capsules, sachets, etc.)
- ✓ Shelf-life: **2 years**
- ✓ **Clean label**
 - Milk Protein hydrolysate
 - In the US: "Casein Hydrolysate"
- ✓ No toxicity nor side effects

CONTACT US
www.ingredia-health.com

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Ingredia Health is a division of Ingredia.

The statements for this product have not been evaluated by regulatory authorities.