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Q·melt

Iron 20 mg

Oral Dissolvable Film | Mixed Berry with Sweetners

Nutritional Information

One oral dissolvable film provides:

		*%NRV
Iron	20 mg	143

*Nutrient Reference Value

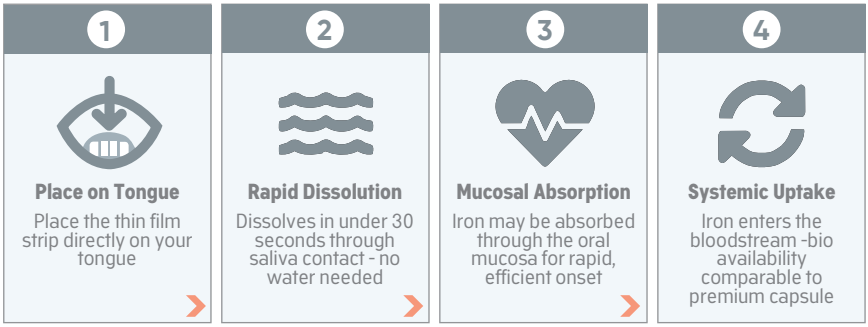
Take one film daily or as directed by your healthcare professional.

SUMMARY

- Advanced Oral Dissolvable Film (ODF) technology for convenient, precise iron supplementation
- 20mg iron per film strip - 143% NRV, no measuring required
- Dissolves on the tongue in under 30 seconds - no water, no swallowing
- Microencapsulated iron eliminates metallic taste and minimises GI side effects
- Bioavailability confirmed equivalent to a gold-standard iron capsule
- Mixed berry flavour for superior acceptance and daily compliance
- GMP-certified in-house manufacturing
- EU health claim and additives compliant

HOW THE ODF WORKS

Oral Dissolvable Film (ODF) is a thin, flexible polymeric film that dissolves rapidly on the tongue within seconds - releasing the active ingredient without water, chewing, or swallowing a tablet. QMelt Iron 20mg uses a HPMC and pullan based film-forming polymer matrix incorporating microencapsulated iron (ferric saccharate), enabling controlled release, superior tolerability, and complete taste masking.



The QMelt film is precision-engineered using a blend of polymers. Microencapsulation of the iron active in calcium alginate ensures taste masking, enhanced stability, and a controlled release profile. Each strip is individually sachet-sealed for hygiene, portability, and with a 36-month shelf life.

ADVANTAGES OF IRON IN ODF FORM

Oral Dispersible Film ✓	Tablets	Syrup	Injection/Infusion
• Rapid absorption • Convenient and portable • Pleasant taste, easy to take • No water needed • Minimal GI side effects • High patient compliance	• Requires water to swallow • May cause GI side effects • Large size difficult to swallow • Poor taste masking • Low patient compliance	• Longer absorption time • Messy and less portable • Can cause tooth staining • Variable dosing accuracy • Low-medium compliance	• Invasive administration • Requires healthcare professional • Risk of infection • Not suitable for self-administration • Higher cost per dose

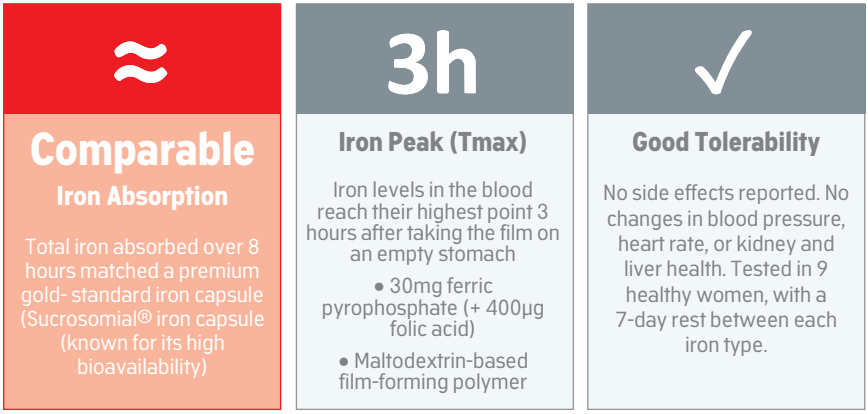
In addition, microencapsulation of the iron active within the ODF strip provides a secondary protective layer - reducing iron exposure to gastric acid, minimising oxidation, and further reducing GI irritation versus unencapsulated tablet or liquid iron forms.

IRON ODF BIOAVAILABILITY

The bioavailability of the iron ODF format was evaluated in a peer-reviewed crossover clinical study. Nine healthy women received either the iron ODF film or a Sucrosomial® iron capsule (an established high-bioavailability reference standard), with a 7-day washout period between treatments.

The study demonstrated that the iron ODF achieved systemic iron absorption comparable to the reference Sucrosomial® iron capsule. Pharmacokinetic analysis showed no statistically significant differences between the two formats for key parameters including serum iron increase and overall exposure (AUC), indicating that the ODF film effectively delivers bioavailable iron. Importantly, the ODF format was well tolerated and provides a convenient, water-free alternative to conventional dosage forms.

The findings confirmed that iron delivered via the ODF format is efficiently absorbed and performs comparably to a recognised high-bioavailability iron reference product. This supports the ODF platform as a scientifically validated, patient-friendly delivery system capable of providing effective systemic iron supplementation while offering improved convenience and swallowability versus conventional dosage forms.



Source: Cupone IE, et al. Orodispersible Film Based on Maltodextrin: A Convenient and Suitable Method for Iron Supplementation. Pharmaceutics. 2023;15(6):1575.

BENEFITS OF IRON SUPPLEMENTATION

Iron is an essential mineral and the primary constituent of haemoglobin - the protein in red blood cells responsible for carrying oxygen throughout the body. Iron also forms part of myoglobin (muscle oxygen storage) and participates in energy-releasing reactions. Symptoms of iron deficiency include fatigue, weakness, pallor, impaired cognitive performance, and reduced immune function.

EU-approved iron health claims (Regulation (EC) No 1924/2006) include:

- Normal formation of red blood cells and haemoglobin
- Normal oxygen transport in the body
- Reduction of tiredness and fatigue
- Normal energy-yielding metabolism
- Normal function of the immune system
- Normal cognitive function

Pregnant Women

- High iron demand during pregnancy
- Reduced nausea vs. conventional tablets
- Easy administration -no water needed

Older Children (on advice of healthcare professional)

- Avoids swallowing difficulty in children
- Mixed berry taste ensures acceptance
- Fun, non-intimidating format

Elderly Patients

- Eliminates risk of dysphagia
- Gentle GI profile for sensitive stomachs
- Simple and convenient daily use

Iron-Deficient Adults

- Women, athletes, dieters & vegetarians
- On-the-go compliance -no water needed
- 20mg per strip, precisely dosed

ODF MANUFACTURING PROCESS

QMelt Iron 20mg ODF is manufactured in-house by Quest in its dedicated and fully automated oral film production facility under full GMP certification, ensuring end-to-end quality, supply security, and batch consistency.

1. **Formulation Preparation**
   Active ingredients blended into film-forming polymer solution with flavourings
2. **Film Casting**
   Precision casting to exact thickness-consistent 20mg dose per strip
3. **Controlled Drying**
   Controlled temp & humidity drying for stability and <30s dissolution
4. **Cutting & Packaging**
   Individual sachet-sealing for moisture protection and 36-month shelf life
5. **QC & Release Testing**
   Full in-house analytical testing from raw material to batch release

HEALTH NEEDS

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Version 1.0

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