



OXP liquid™

Suspension System

Suspensions, Syrups and Gels with Superior Taste and Stability

- Designed to overcome a number of challenges faced by traditional suspension formulations
- Traditional suspensions have the following issues:
 - Difficult to solubilise and disperse water-insoluble active ingredients
 - Agglomeration of suspending agents
 - Poor taste and organoleptics
 - Instability
- **OXP liquid™** uses a patented formulation, which includes fibres, to achieve desired effects in:
 - Taste
 - Mouth feel
 - Active ingredient dispersability

Benefits of <i>OXP liquid™</i>	Implications
Faster dissolution rate than conventional suspensions	Rapid onset of action for therapeutic indications, i.e. pain
Viscosity can be dialled up to manufacture suspensions, syrups and gels	Ideal for delivery to children and elderly, i.e. yogurts for dysphagia sufferers
One step process without homogenisation or heating	Simple cost effective manufacture
Can be used with <i>OXP zero™</i>	Complete taste masking in a suspension, syrup or gel format
No surfactants or stabilisers required	Removes agglomeration issues and reduces additive content
<i>OXP liquid™</i> fibres are naturally sweet	Reduced sugar content

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Case Study: *OXP liquid™* 100mg / 5ml Ibuprofen Suspension

- *OXP liquid™* dissolution performance compared to Nurofen for Children
- *OXP liquid™* shows significantly faster dissolution rate
- API suspension are physically, chemically and microbiologically stable
 - Long term conditions
 - Accelerated conditions

Figure 1. Physical and Chemical stability of *OXP liquid™*, Ibuprofen suspension.

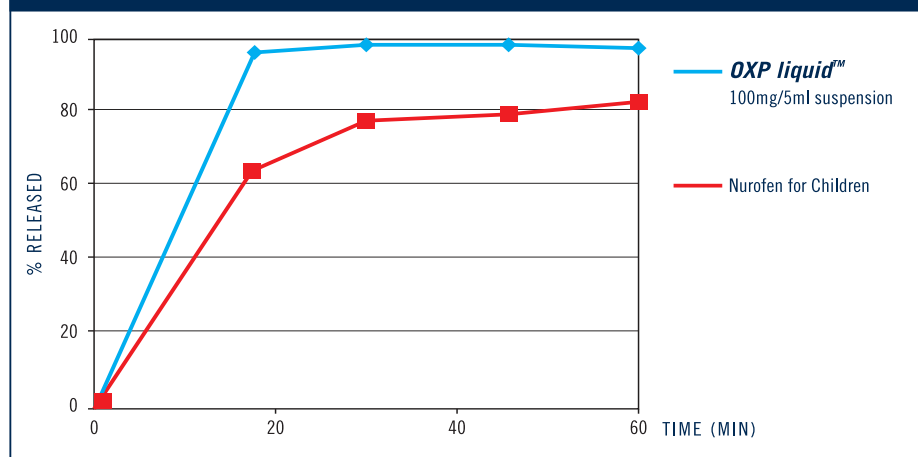


Table 1. Physical and Chemical Stability of Ibuprofen Suspension

Stability Test	Stability Conditions	Initial	1 Month	3 Months
Ibuprofen (%w/v)	25°C / 60% RH	1.96	2.03	2.07
	40°C / 75% RH	1.96	2.07	2.07
Related Substances	25°C / 60% RH	ND	ND	<LOD
	40°C / 75% RH	ND	ND	<LOD
Density (g/ml)	25°C / 60% RH	1.26	1.24	1.27
	40°C / 75% RH	1.26	1.25	1.28
Colour	25°C / 60% RH	Off white	Off white	Off white
	40°C / 75% RH	Off white	Off white	Off white

To find out more contact:

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