








SPECIFICATION OF RAW HERB



SPEC. No.: XXXX	FOENICULI VULGARIS FRUCTUS	Revision No.: 0
Date Issued 27 Nov 2015	Department QUALITY CONTROL	Effective Date <i>1 January 2016</i>
Prepared by : QC Section Head	Approved by : Quality Control Manager	Page: 1 of 1

TEST ITEMS	REQUIREMENT	TEST METHOD
Description	<p>Fennel seeds are the dried seeds of <i>Foeniculum vulgare</i> Mill.</p> <p>1. The fruit has oval shape, with sharp ends, 10 mm long, 4 mm wide. The fruit surface has 5 primary ridges if each mericarp, greenish brown or yellowish brown, characteristic odor, mildly sweet taste</p> <div style="text-align: center;">  <p>Foeniculifructus</p> </div> <p>2. Identification fragments are endocarp with palisade cells, endocarp, endosperm cells, fibres, xylem vessel and epicarp</p> <div style="display: flex; flex-wrap: wrap; justify-content: center;"> <div style="margin: 5px; text-align: center;">  Endocarp with palisade cells </div> <div style="margin: 5px; text-align: center;">  Endocarp </div> <div style="margin: 5px; text-align: center;">  Endosperm cells </div> <div style="margin: 5px; text-align: center;">  Fibres </div> <div style="margin: 5px; text-align: center;">  Xylem vessel </div> <div style="margin: 5px; text-align: center;">  Epicarp </div> </div>	<p>Macroscopic analysis (visual - organoleptic)</p> <p>Microscopic</p>
Thin Layer Chromatography (TLC)	Retardation factor (Rf) value of samples about equal to Rf of <i>trans</i> -anetol : 0.25	TM 01

Loss on Drying	< 10%	TM 02
Total Ash	< 13.1%	TM 03
Acid Insoluble Ash	< 2.7%	TM 04
Water Soluble Extract	< 20.0%	TM 05
Alcohol Soluble Extract	< 8.6%	TM 06
Chemical Content	1. Volatile oil : < 1.40% v/b 2. <i>Trans</i> -anetol : < 0.60%	TM 07 TM 08

Storage

Closed container at room temperature

Reference

Indonesian Herbal Pharmacopeia 1st Edition year 2012