



## Melatonin Stability test

Product name	Melatonin	Product specification			HPLC $\geq$ 99.0%				Lot No:	XPS110706		
Item	Date Accepted Criterion	Long-term test (Month) 25 $\pm$ 2 $^{\circ}$ C, 60 $\pm$ 5%							Accelerated test (Month) 40 $\pm$ 2 $^{\circ}$ C, 75 $\pm$ 5%			
		0	3	6	9	12	18	24	36	0	3	6
		Lose on drying	0.5%MAX	0.14%	0.15%	0.18%	0.19%	0.21%	0.21%	0.24%	0.26%	0.14%
Appearance characteristics	Off-White to White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White
Melting point	117-120 $^{\circ}$ C	118.8-119.1	118.7-119	118.7-118.9	118.6-118.8	118.4-118.7	118.4-118.6	118.1-118.5	118.1-118.4	118.8-119.1	118.6-119	118.5-118.8
Assay(TCL)	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%
HPLC	$\geq$ 99.0%	99.56%	99.57%	99.53%	99.52%	99.49%	99.46%	99.41%	99.38%	99.56%	99.53%	99.48%
Fill by/date:	Xia Qin	2011.08.16	2011.11.16	2012.02.16	2012.05.16	2012.08.16	2013.02.16	2013.08.16	2014.08.16	2011.08.16	2011.11.16	2012.02.16
Checked by/date:	Shuixia Wang	2011.08.16	2011.11.16	2012.02.16	2012.05.16	2012.08.16	2013.02.16	2013.08.16	2014.08.16	2011.08.16	2011.11.16	2012.02.16

Product name	Melatonin	Product specification			HPLC $\geq$ 99.0%				Lot No:	XPS110710		
Item	Date Accepted Criterion	Long-term test (Month) 25 $\pm$ 2 $^{\circ}$ C, 60 $\pm$ 5%							Accelerated test (Month) 40 $\pm$ 2 $^{\circ}$ C, 75 $\pm$ 5%			
		0	3	6	9	12	18	24	36	0	3	6
		Lose on drying	0.5%MAX	0.15%	0.17%	0.18%	0.20%	0.21%	0.23%	0.26%	0.28%	0.15%
Appearance characteristics	Off-White to White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White
Melting point	117-120 $^{\circ}$ C	118.5-118.7	118.5-118.8	118.4-118.7	118.3-118.6	118.4-118.7	118.2-118.4	118.1-118.4	117.9-118.2	118.5-118.7	118.4-118.7	118.3-118.6
Assay(TCL)	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%
HPLC	$\geq$ 99.0%	99.47%	99.46%	99.43%	99.44%	99.41%	99.38%	99.34%	99.31%	99.47%	99.45%	99.42%
Fill by/date:	Xia Qin	2011.08.16	2011.11.16	2012.02.16	2012.05.16	2012.08.16	2013.02.16	2013.08.16	2014.08.16	2011.08.16	2011.11.16	2012.02.16
Checked by/date:	Shuixia Wang	2011.08.16	2011.11.16	2012.02.16	2012.05.16	2012.08.16	2013.02.16	2013.08.16	2014.08.16	2011.08.16	2011.11.16	2012.02.16

Product name	Melatonin	Product specification			HPLC $\geq$ 99.0%				Lot No:	XPS110714		
Item	Date Accepted Criterion	Long-term test (Month) 25 $\pm$ 2 $^{\circ}$ C, 60 $\pm$ 5%							Accelerated test (Month) 40 $\pm$ 2 $^{\circ}$ C, 75 $\pm$ 5%			
		0	3	6	9	12	18	24	36	0	3	6
		Lose on drying	0.5%MAX	0.17%	0.16%	0.19%	0.20%	0.22%	0.23%	0.28%	0.32%	0.17%
Appearance characteristics	Off-White to White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White
Melting point	117-120 $^{\circ}$ C	119.1-119.3	119.1-119.3	118.9-119.2	119.0-119.2	118.8-119.0	118.7-119.0	118.5-118.8	118.4-118.7	119.1-119.3	119.0-119.2	118.8-119.1
Assay(TCL)	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%	$\geq$ 99.0%
HPLC	$\geq$ 99.0%	99.54%	99.52%	99.51%	99.48%	99.47%	99.44%	99.42%	99.39%	99.54%	99.51%	99.49%
Fill by/date:	Xia Qin	2011.08.16	2011.11.16	2012.02.16	2012.05.16	2012.08.16	2013.02.16	2013.08.16	2014.08.16	2011.08.16	2011.11.16	2012.02.16
Checked by/date:	Shuixia Wang	2011.08.16	2011.11.16	2012.02.16	2012.05.16	2012.08.16	2013.02.16	2013.08.16	2014.08.16	2011.08.16	2011.11.16	2012.02.16