





<p><b>Name of Sponsor / Company:</b> Almirall, S.A</p> <p><b>Name of Finished Product:</b> N.A.</p> <p><b>Name of Active Ingredients:</b> Acclidinium bromide</p>	<p><b>Individual Study Table Referring to Part of the Dossier</b></p> <p><b>Volume:</b></p> <p><b>Page:</b></p>	<p><b>(For National Authority Use only)</b></p>
<p><b>Reference therapy, dose and mode of administration, batch number, expiry date (continued):</b>                  Name: Placebo to tiotropium bromide                  Administration route: Oral inhalation by HandiHaler® single-dose dry powder inhaler                  Dosage form: Dry powder in a hard gelatin capsule                  Dose and regimen: 1 capsule of placebo in the morning (09:00 ± 1h).                  Batch number: 111F0255                      Expiry date: August 2012.</p>		
<p><b>Criteria for evaluation:</b></p> <p><b>Efficacy:</b>  <u>Primary Efficacy Variable:</u></p> <ul style="list-style-type: none"> <li>Change from baseline in normalised FEV<sub>1</sub> area under the curve over the 24-h period immediately after morning investigational medicinal product (IMP) administration (AUC<sub>0-24</sub>) after 6 weeks of treatment.</li> </ul> <p><u>Secondary Efficacy Variable:</u></p> <ul style="list-style-type: none"> <li>Change from baseline in normalised FEV<sub>1</sub> area under the curve over the 12-h night-time period (AUC<sub>12-24</sub>) after 6 weeks of treatment.</li> </ul> <p><u>Additional Efficacy Variables:</u></p> <ul style="list-style-type: none"> <li>Pulmonary function (FEV<sub>1</sub> and FVC) at Day 1 and after 6 weeks of treatment.</li> <li>The use of relief medication and any change in the percentage of relief medication-free days.</li> <li>Daily COPD symptoms and any change in the percentage of days without daily COPD symptoms.</li> <li>Percentage of patients who preferred one of the 2 devices and percentage of patients who were willing to continue on each device.</li> </ul> <p><b>Safety:</b>                  Safety assessments included eliciting of adverse events (AEs) and serious AEs (SAE), blood pressure (BP) and heart rate (HR) measurements and physical examinations. Pregnancy tests were performed in females of childbearing potential (results not presented in this report).</p>		
<p><b>Statistical methods:</b>                  The analysis of the primary and secondary efficacy variables were performed using the ITT population (i.e., patients who took at least 1 dose of IMP and had at least a baseline FEV<sub>1</sub> assessment and at least one post-baseline FEV<sub>1</sub> value were included in the analysis). In addition, the primary and secondary efficacy variables were also analysed using the PP population to assess the robustness of the findings from the ITT population.</p> <p>Efficacy variables, except for time to peak FEV<sub>1</sub> and percentage of patients preferring each device and willing to continue to use them, were analysed by means of an analysis of covariance (ANCOVA) with treatment and sex as factors and corresponding baseline and age as covariates. All between-group comparisons were tested using the appropriate contrast in the ANCOVA model. Between-groups least squares (LS) means (adjusted means) and 95% confidence intervals (CI) were given for all pairwise comparisons.</p> <p>Time to peak FEV<sub>1</sub> was analysed descriptively. The percentage of patients preferring each device was described and the percentage of patients preferring Genuair® was compared to 50% using an exact binomial test. The mean difference in scores corresponding to “willingness to continue” for the two devices was tested to be different from zero using a t-test.</p> <p>A sensitivity analysis for the primary and secondary efficacy variables was also carried out by using a mixed model for repeated measures.</p>		



<b>Name of Sponsor / Company:</b> A•dæz^} ^&æ	<b>Individual Study Table Referring to Part of the Dossier</b>	<b>(For National Authority Use only)</b>
<b>Name of Finished Product:</b> N.A.	<b>Volume:</b>	
<b>Name of Active Ingredients:</b> Acridinium bromide	<b>Page:</b>	

**Efficacy Results:**

The results of the statistical analyses of the changes from baseline in FEV<sub>1</sub> parameters are summarised in the following table:

Variable	Comparison	Differences in Adjusted Mean Changes from Baseline			
		Day 1		Week 6	
		AB 400 µg BID (N=171)	TB 18 µg QD (N=158)	AB 400 µg BID (N=171)	TB 18 µg QD (N=158)
<b>FEV<sub>1</sub> (L)</b>					
Normalised AUC <sub>0-24</sub>	versus Placebo	0.156*	0.117*	0.150*	0.140*
	versus TB	0.040**		0.010	
Normalised AUC <sub>12-24</sub>	versus Placebo	0.168*	0.100*	0.160*	0.123*
	versus TB	0.067**		0.037	
Normalised AUC <sub>0-12</sub>	versus Placebo	0.149*	0.136*	0.138*	0.156*
	versus TB	0.013		-0.018	
Morning Pre-dose (trough)	versus Placebo	0.141*	0.093*	0.141*	0.102*
	versus TB	0.048**		0.038	
Evening Pre-dose (trough)	versus Placebo	0.147*	0.126*	0.125*	0.165*
	versus TB	0.020		-0.040	
Morning Peak	versus Placebo	0.154*	0.139*	0.180*	0.172*
	versus TB	0.014		0.008	
Evening Peak	versus Placebo	0.193*	0.112*	0.180*	0.155*
	versus TB	0.082**		0.025	

Study M/34273/39

AB=acridinium bromide; AUC<sub>0-12</sub>=area under the curve over the 12-h period immediately after morning IMP administration; AUC<sub>0-24</sub>=area under the curve over the 24-h period immediately after morning IMP administration; AUC<sub>12-24</sub>=area under the curve over the 12-h night-time period; BID=twice daily; FEV<sub>1</sub>=forced expiratory volume in 1 second; ITT=Intention-to-Treat; N=ITT population size; QD=once daily; TB=tiotropium bromide.

\* Statistically significant versus placebo. \*\* Statistically significant versus TB. Statistical significance was declared if the p-value for the comparison was <0.05. For placebo, N=85.

Adjusted mean differences and p-values obtained from an analysis of covariance model with change from baseline in FEV<sub>1</sub> variable as response, with treatment group and sex as factors and corresponding baseline and age as covariates.

**Primary efficacy variable: Change from baseline in normalised FEV<sub>1</sub> AUC<sub>0-24</sub> at Week 6**

After 6 weeks of treatment, acridinium bromide 400 µg BID showed a statistically significantly greater increase in the adjusted mean change from baseline in normalised FEV<sub>1</sub> AUC<sub>0-24</sub> compared to placebo (0.150 L; p<0.0001) and a numerically greater increase in adjusted mean change from baseline in normalised FEV<sub>1</sub> AUC<sub>0-24</sub> compared to tiotropium bromide (0.010 L; p>0.05).

**Secondary efficacy variable: Change from baseline in normalised FEV<sub>1</sub> AUC<sub>12-24</sub> at Week 6**

After 6 weeks of treatment, acridinium bromide 400 µg BID showed a statistically significantly greater increase in adjusted mean change from baseline in normalised FEV<sub>1</sub> AUC<sub>12-24</sub> compared to placebo (0.160 L; p<0.0001) and a numerically greater increase in adjusted mean change from baseline in normalised FEV<sub>1</sub> AUC<sub>12-24</sub> compared to tiotropium bromide (0.037 L; p>0.05).





<p><b>Name of Sponsor / Company:</b> AstraZeneca</p> <p><b>Name of Finished Product:</b> N.A.</p> <p><b>Name of Active Ingredients:</b> Aclidinium bromide</p>	<p><b>Individual Study Table Referring to Part of the Dossier</b></p> <p><b>Volume:</b></p> <p><b>Page:</b></p>	<p><b>(For National Authority Use only)</b></p>
<p><b>CONCLUSIONS:</b></p> <p># 1</p> <p>1</p> <p><b>DATE OF REPORT:</b> 31 August 2012</p>		